

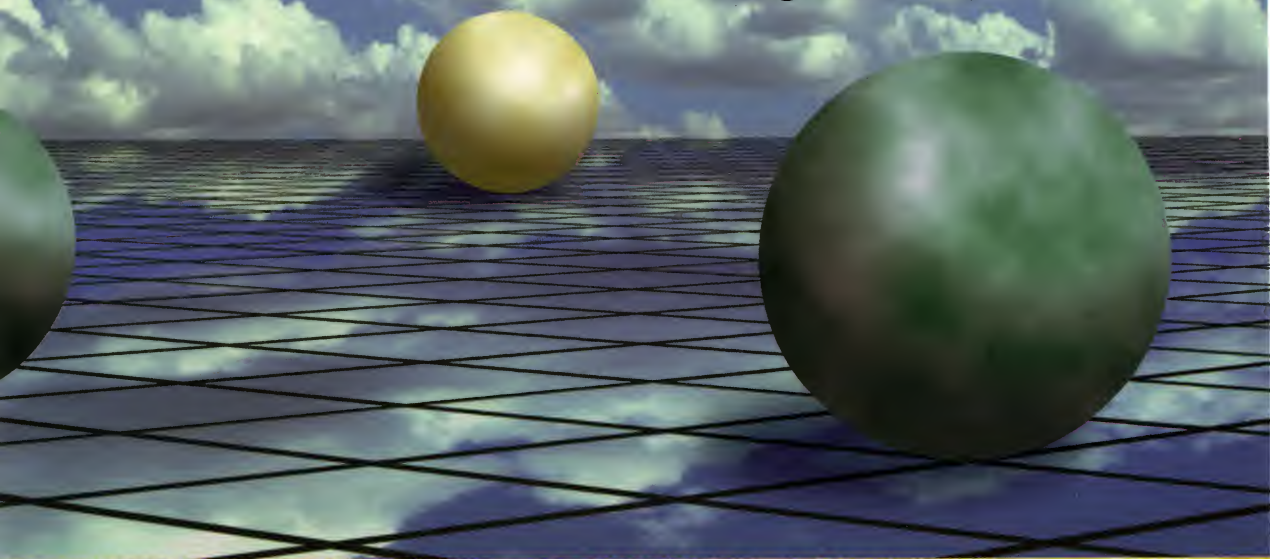
# Learn to Play Go

*A Master's Guide to the Ultimate Game*



Janice Kim 3 dan

Jeong Soo-hyun 9 dan



≈ Complete Go Set Inside ≈

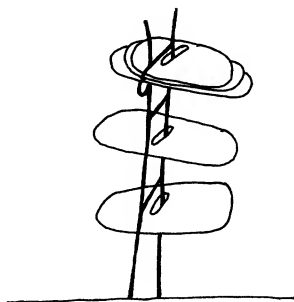
The Korean Go Association's

# Learn to Play Go

*Volume I: A Master's Guide to the Ultimate Game*

Janice Kim 3 dan

Jeong Soo-hyun 9 dan



Drawings by a lee

Good Move Press

Published by  
**Good Move Press**  
1122 Indiana Avenue  
Sheboygan, WI 53081

*2nd printing March 1999*

*3rd printing March 2000*

*4th printing April 2002*

*5th printing January 2003*

*6th printing April 2004*

© 1994 Janice Kim  
2nd edition © 1997 Janice Kim

All rights reserved. This book or any part or parts hereof may not be reproduced in any form without written permission from Good Move Press.

ISBN 0-9644796-1-3

Printed in Canada

# PREFACE AND ACKNOWLEDGEMENTS

---

This first book of a three-volume series has two parts. The first part gives all the information you need to get started playing Go. Part II contains basic techniques. The book is designed for the complete beginner, but is also useful for the Go player who finds it difficult to improve quickly, or as a reference work or teaching guide for advanced players. Each chapter ends with a series of exercises so that you can “try it yourself.” Additionally, there is a Go set attached so you can start playing Go right away, follow along with the text, or experiment on your own.

I’ve taken some liberties in adaptation, since a direct translation from Korean to English often misses the point. But as a student of Mr. Jeong’s who can attest to his method (I myself went from 4 kyu to 6 dan during one summer of Mr. Jeong’s efforts and exhortations to “take the hegemony with tenacious strength!”) I have tried to keep as close as possible to the original Korean. Any mistakes in this English version are mine.

Many thanks to everyone, especially: Michael J. Simon, who make this book possible, and did the layout besides; Pil-young Kim, Korean teacher extraordinaire; Barbara London, THE brain to pick; Paul Agresti, design man and segue master; Angie Lee, superior artist; Ellen Kim and Chris Summa, medical advisors; Patrick O’Neil; Koh Oitae and Lee See-yong from the Hankook Kiwon; my students at the Go Institute; Laurie and Dennis; Shoko and Taro; Mary and Roy; Jim Stone; Paul Anderson; Timothy Greenfield-Sanders of the apocryphal Bolshoi story; David Mechner, fellow survivor of Camp Kwinada; Dad and Mom; and to Bob High, with fondest memories.

Janice Kim, *November 1, 1994*

Go is a very interesting as well as useful game. It not only amuses with its variety, but it helps players cultivate mental power and self-control. That is why it is regarded as the “mental sport” containing Oriental mystery.

This book was written originally in Korean and published by the Hankook Kiwon (Korean Go Association), whose mission lies in promoting the game of Go as valuable culture. It aims at teaching Go in a systematic way, that is, the step-by-step approach. It is based on my experiences instructing thousands at Go clubs, schools, educational centers, etc. I have dealt with the essential knowledge and techniques a beginner should learn, excluding difficult theory and some complicated skills.

I am glad that Janice Kim has translated the book into English. She, a famous American professional player, is eager to promulgate the mysterious game. I hope this translation will contribute to the promotion of Go in the West.

Jeong Soo-hyun, *September 6, 1994*





# PREFACE TO THE SECOND EDITION

---

There are a number of changes to the second edition. I've started using the convention of referring to Black as male and White as female, with some trepidation — weighing clunkiness and free-wheeling grammar with gender bias, I've come over to think that it is perhaps okay to use pronouns. I've also gone over to embracing some Go terminology, like the word *hane*. Although I hesitate to make Go overly obscure, the term *hane* is used so frequently, and given that it just rolls off the tongue in a way that “turn the corner” does not, I figured this too was a good idea.

More importantly, I've tried to catch errors in the first edition, clarify difficult sections, and aim for more precision in the text. The design and layout has been modified to make it easier to read. I apologize for any errors in this edition, which, unfortunately, once again are entirely my own.

Thanks to all the readers of the first edition, who gave much helpful commentary and support.

More thanks go to Liz Shura, Valerie Blum, Brian D'Amato, Jonathan Englander, and Bruce Price.

Janice Kim

*November 1997*

# CONTENTS

Preface and Acknowledgements .....	i
Introduction .....	vii

## Part I: Fundamentals ..... 1

① What is Go? .....	2
<i>The Board and Stones, How the Game is Played</i>	
▲ Try It Yourself .....	10
② Capturing .....	12
<i>Liberties, Capture, Atari, Capturing More Than One Stone</i>	
▲ Try It Yourself .....	17
③ Connecting and Cutting .....	20
<i>Connecting, Cutting, The Diagonal</i>	
▲ Try It Yourself .....	25
④ Where You Can't Play .....	28
<i>The Point Without Liberties, Gaining Liberties by Capturing</i>	
▲ Try It Yourself .....	32
⑤ Life and Death .....	34
<i>Life, Death, Conditions for Life, False Eyes, A Special Form of Life</i>	
▲ Try It Yourself .....	44
■ Go Strength .....	47
⑥ Ko .....	48
<i>What is Ko? The Rule of Ko</i>	
▲ Try It Yourself .....	50
■ The Many Names of Go .....	53
⑦ Territory .....	54
<i>Conditions for Territory</i>	
▲ Try It Yourself .....	57
■ Go in Cyberspace .....	60
■ Go for Kids .....	61
⑧ A Real Game .....	62
■ Go Stars .....	74
■ Go in the U.S.A. ....	77

<b>Part II: Basic Techniques</b> .....	79
<b>9 Capturing Techniques</b> .....	80
<i>Double Atari, Pushing Towards the Edge, The Ladder, The Net, The Snapback, The Pin</i>	
▲ Try It Yourself .....	99
<b>10 Connecting Techniques</b> .....	104
<i>The Tiger's Mouth, The Knight's Move, The Bamboo Joint, Crossing Under</i>	
▲ Try It Yourself .....	115
■ Handicap Go .....	120
■ Go Etiquette .....	121
<b>11 Life and Death Techniques</b> .....	122
<i>The Center, Eye Shapes, Life and Death Situations</i>	
▲ Try It Yourself .....	132
<b>12 Capturing Races</b> .....	136
<i>What is a Capturing Race? Predicting the Winner, Blocking Liberties</i>	
▲ Try It Yourself .....	141
■ The History of Go .....	143
<b>13 Ko Fighting</b> .....	144
<i>Ko Threats</i>	
▲ Try It Yourself .....	147
■ Go and Computers .....	152
<b>14 Ending and Counting</b> .....	154
<i>When the Game is Over, Filling in Neutral Points, Disposition of Dead Stones, Arranging Territories</i>	
▲ Try It Yourself .....	160
<b>Sample Openings</b> .....	166
<b>Appendix A – Go Associations</b> .....	170
<b>Index</b> .....	174



---

# INTRODUCTION

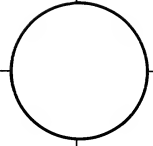
Imagine that God has a house. It's rather large, and one of its remarkable aspects is that it contains the best examples of anything you can think of — the best chairs and tables, artworks, books, smells, all in perfectly proportioned rooms of an ideal size. If you were visiting for the evening, you might walk through the front doors and leave your coat in the hall closet to your left. The closet has a top shelf, and if you looked closely, in the far corner tucked away you might find a Go set.

The game of Go appears to have magical characteristics. The kids who usually run a circle around the prized vase sit in silent thought. The parents want the kids to stay up past bedtime for “one last game.” Ancient enemies laugh together. The bank executive and the doorman make arrangements to meet for lunch. People fall in love.

Go appeals to all kind of people, but they seem to share a characteristic: they don't like being told what to do, they don't like being told some dog-shaped cloud is really a bear. No one can say really what Go is, how you should play it, what it ought to mean to you. That can only be a personal discovery, perhaps with the aid of a native guide pointing out the features of the terrain. Learn to play Go. It is simple, but it is not easy. It is worth the time you spend on it. This is to be expected of the best kind of game.







## *PART I:*

# FUNDAMENTALS

*The basic rules of Go are  
easy. You can become a Go  
player in one afternoon.*

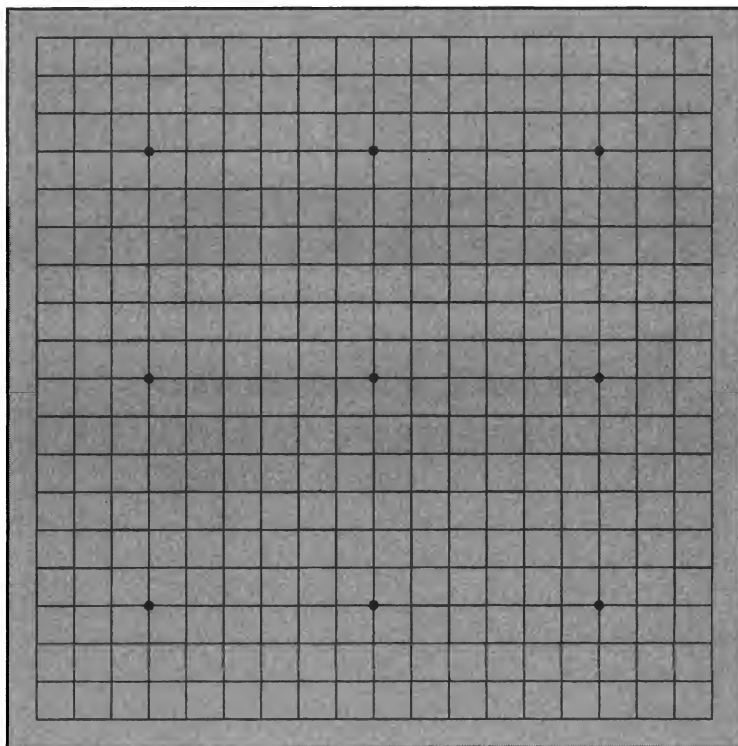
*In Part I, you will see what  
kind of game Go is, and  
how it is played.*

# 1

## WHAT IS GO?

*Go is a game that two people play with a Go board and Go stones. The players take turns putting black and white stones on the board to surround area, or **territory**. Whoever has more territory at the end of the game is the winner.*

### 1. *THE BOARD AND STONES*

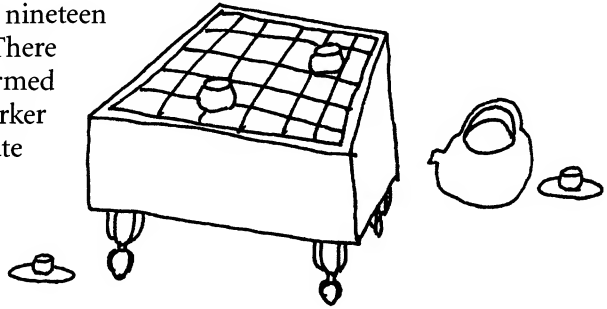


***Diagram 1:***

This is a picture of a Go board. It has intersections formed by evenly spaced lines.

***Diagram 1***

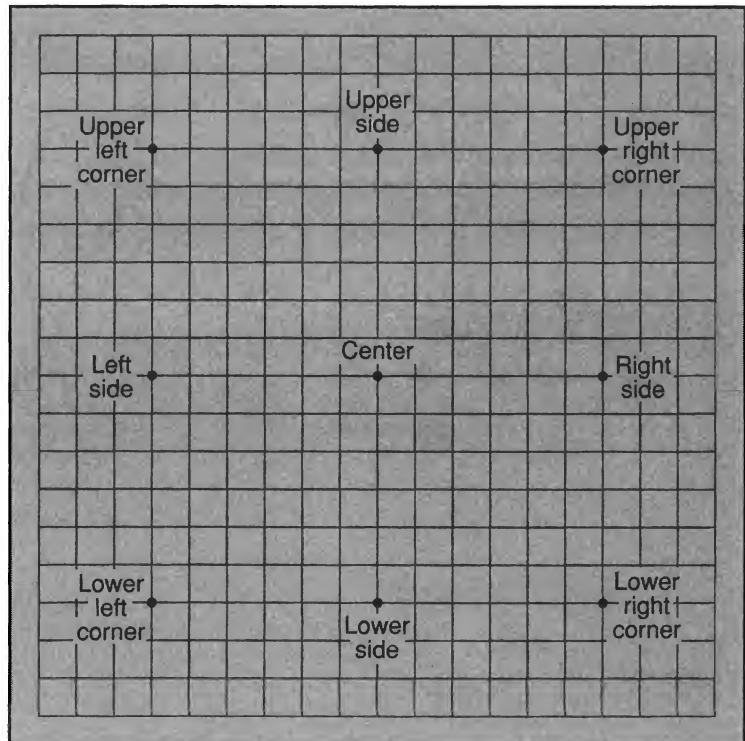
There are nineteen horizontal and nineteen vertical lines on the standard board. There are 361 intersections called **points** formed by the 19 x 19 grid. There are nine darker points called **star points**, used to locate your position.



The standard board is about 45 centimeters by 42 centimeters, and is made of light-colored, light-grained wood. The lines are drawn with a special black ink and are very slightly raised. Boards vary from table versions a few centimeters thick to traditional floor boards with carved wooden legs.

### **Diagram 2:**

Here are the names of the areas on the board. The corners, sides, and center are not exact, but refer to the area around a star point. Upper, lower, left, and right are from where the player with the black stones is sitting. If you are holding this book right side up, you are looking at this board from Black's point of view.

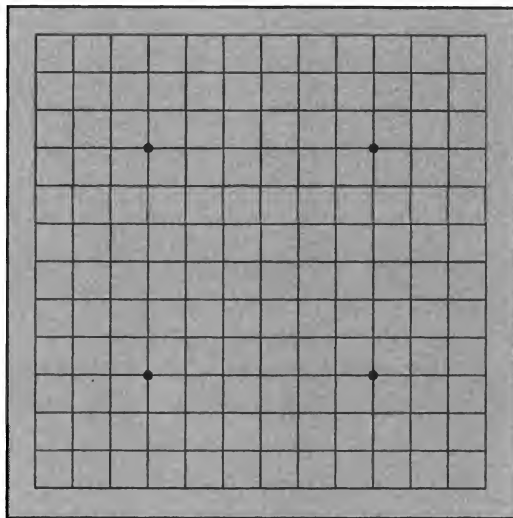


**Diagram 2**

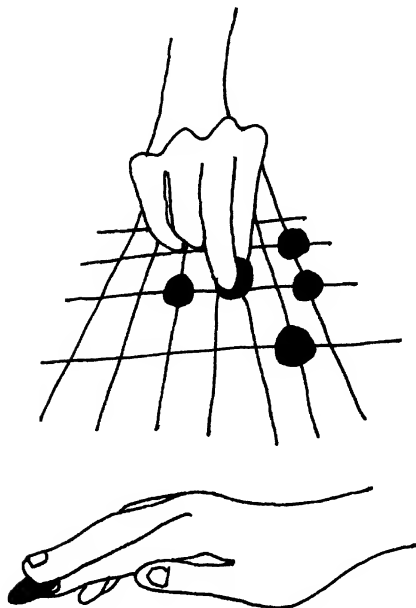
**Diagram 3:**

Instead of a standard 19 x 19 board, a “mini” board may be used, especially when learning Go for the first time. This is a 13 x 13 board. You also can play on smaller boards than this.

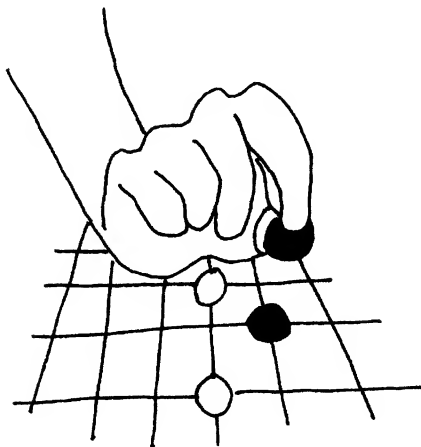
Nowadays Go stones usually are made of glass or plastic. Originally clam shell was used for the white stones and slate for the black, but now this is expensive. Stones are kept in Go bowls with lids, traditionally made of wood. A standard set of stones has 181 black stones and 180 white stones (one for each point on the board) but it’s no problem if you have a few less.

**Diagram 3**

***Go stones are held like this...***



***not like this.***



## 2. *HOW THE GAME IS PLAYED*

### 1. Two people sit face to face with the board between them.

Notice one side of the board is slightly longer than the other. The players should sit on the shorter ends. Traditionally, the older person sits at the front. How do you determine the front of a symmetrical board, you ask? In the old days, the front was the point furthest from the door of the room, as strategically, this is the point of greatest safety from attackers. Nowadays this is more a gesture of politeness.

### 2. The stronger player takes the white stones.

If the two players' abilities are similar, they "choose for color." First, the older player takes a handful of white stones, and the younger player guesses odd or even. Put one or two black stones down instead of saying "odd" or "even" and take the black stones if you guess correctly. Black has an advantage.

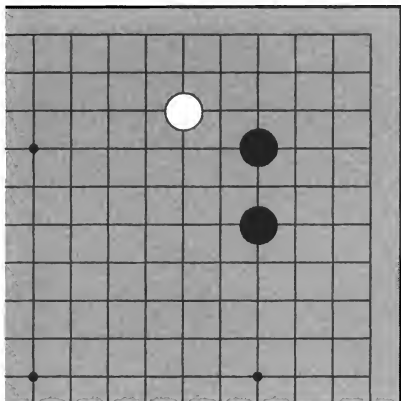
### 3. The player with the black stones begins.

Take one stone between your index and middle fingers and place it on a point on the board. You can put your stone on any point you like, including the points along the edges. Next your opponent plays a stone on another point, and so on.

#### *Diagrams 4 & 5:*

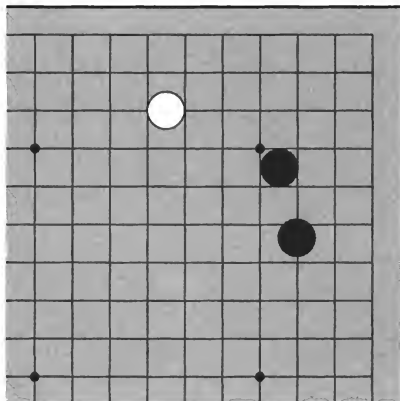
Don't put the stones on the lines or in the squares. Put them exactly on the points. The squares are meaningless.

*Like this...*



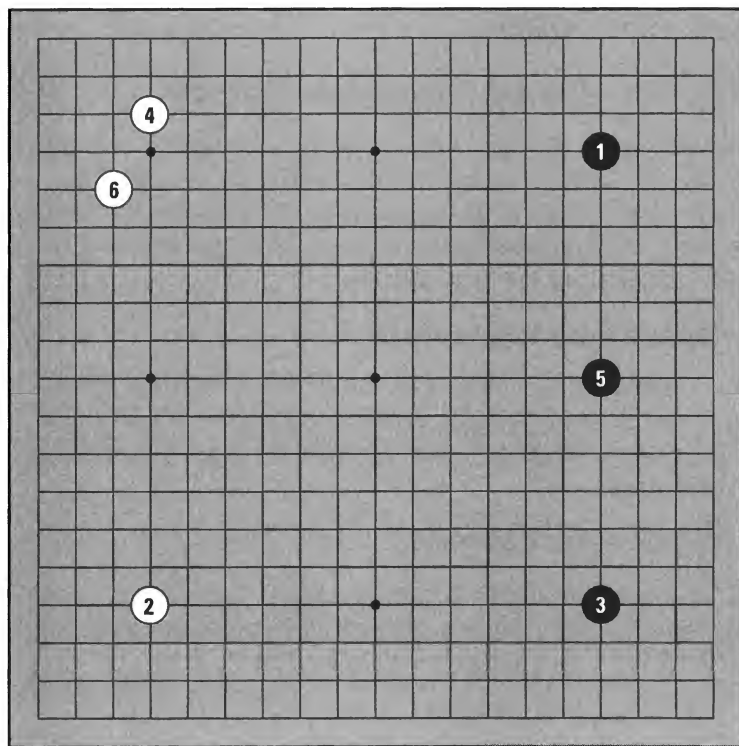
*Diagram 4*

*not like this.*



*Diagram 5*

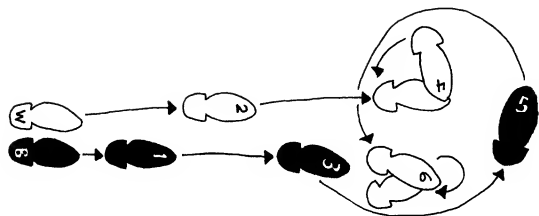




*Diagram 6*

**Diagram 6:**

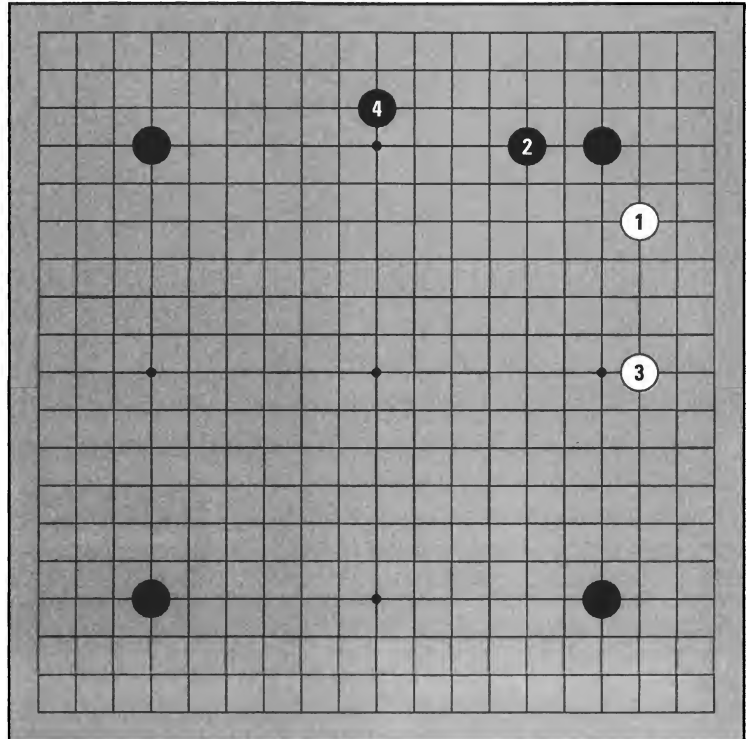
The players are referred to as “Black” and “White.” The number on each stone is the order in which it is played. To review this diagram, find the point on your board where Black 1 was played and put the first stone there, then put White 2, and so on. Each stone is played one at a time. You can’t play two stones at once.



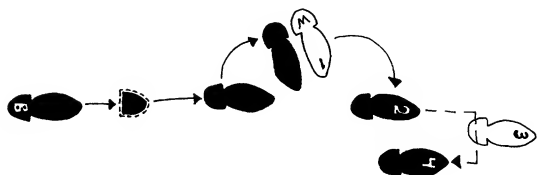
In an **even game** (one between opponents of more or less equal ability) players start with an empty board and Black makes the first move. If there is a gap between the players' abilities, the weaker player needs a head start to make the game more balanced. A **handicap game** begins with some black stones already on the board, and White makes the first move.

### *Diagram 7:*

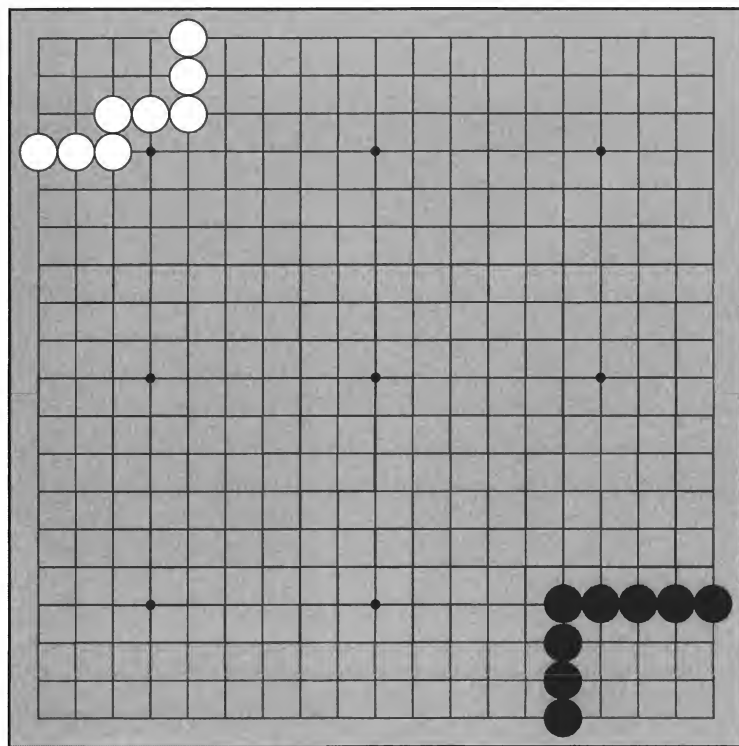
Here Black has four handicap stones, one in each corner, and White played the first move. Play continues as in an even game.



*Diagram 7*



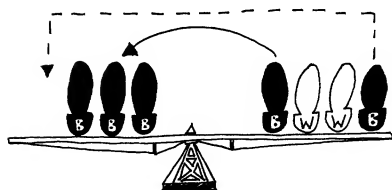
4. At the end of the game, compare the size of Black's and White's territory. Whoever has more territory wins.



*Diagram 8*

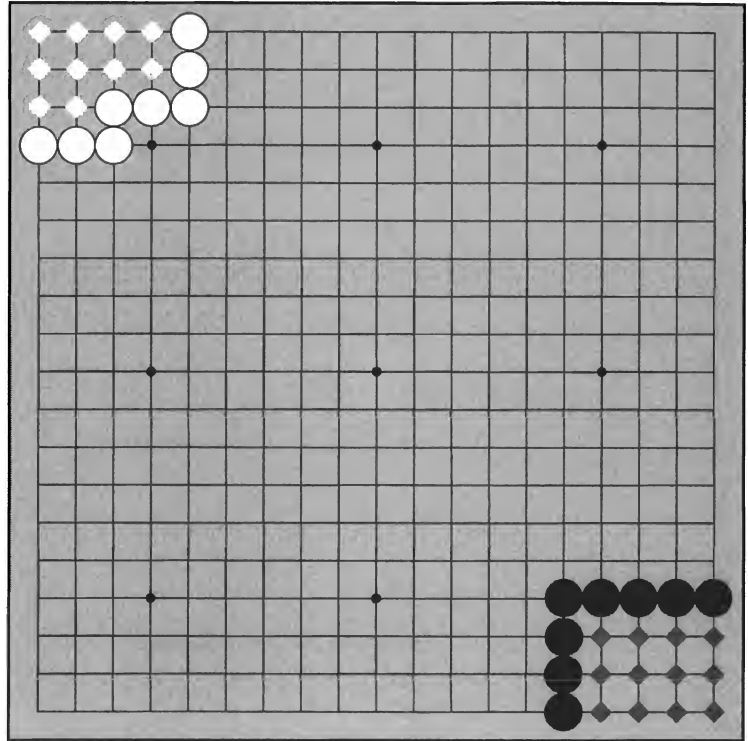
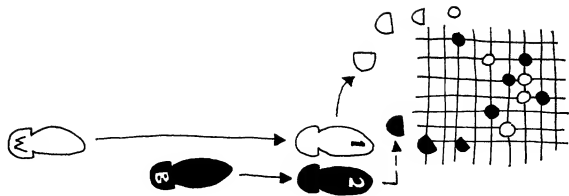
**Diagram 8:**

Territory consists of the points surrounded by stones of the same color. The points surrounded by the black stones are Black territory and the points surrounded by the white stones are White territory. In this diagram, whose territory is larger? If you count the number of points, you can determine the size of the territory.



**Diagram 9:**

Each point of territory is marked with a ♦. By counting the number of ♦s, we see that Black has twelve points and White has ten points, so Black has two points more. If this game were over, Black would win by two points. However, there may be still more territory made in other areas on the board. At the end of the game, you have to compare the size of all the territories to determine the winner. The player with more territory overall wins.

**Diagram 9**

# TRY IT YOURSELF

## Problem 1:

There are \_\_\_\_\_ star points on the standard board.

## Problem 2:

The standard board has \_\_\_\_\_ by \_\_\_\_\_ lines.

## Problem 3:

The stronger player takes the \_\_\_\_\_ stones.

## Problem 4:

Stones are played on the \_\_\_\_\_.

## Problem 5:

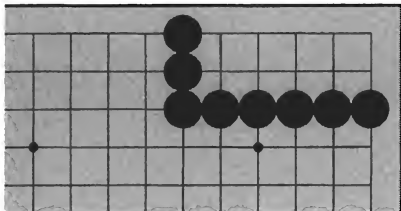
\_\_\_\_\_ plays first in an even game.

## Problem 6:

Whoever has the most \_\_\_\_\_ is the winner.

## Problem 7:

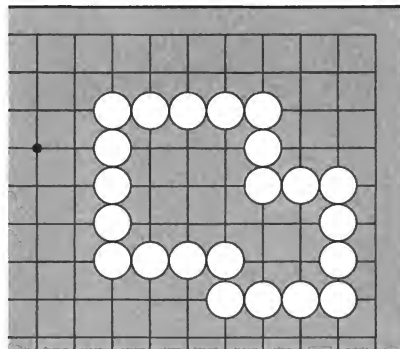
How many points does Black have?



Problem 7

## Problem 8:

How many points are there in White's territory?

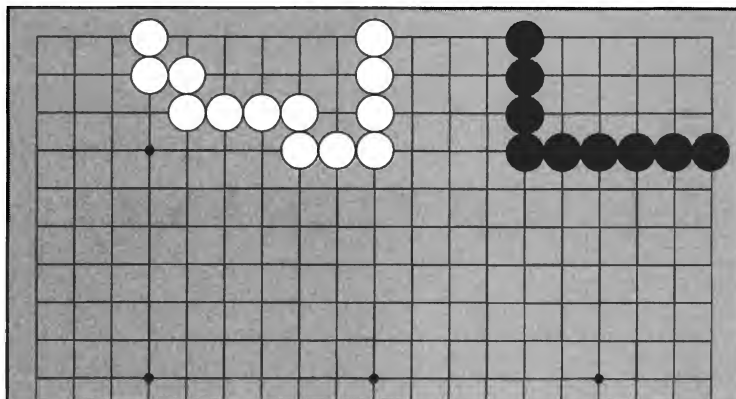


Problem 8

# TRY IT YOURSELF

## Problem 9:

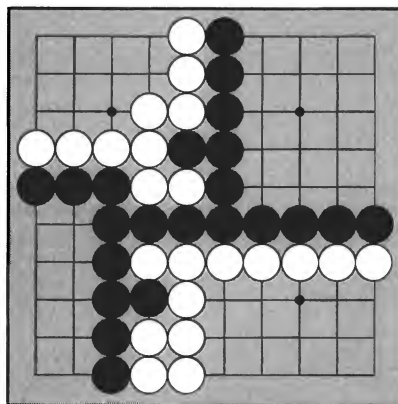
Who has  
more territory?



Problem 9

## Problem 10:

If this is the end of the game, who wins?



Problem 10

# ANSWERS

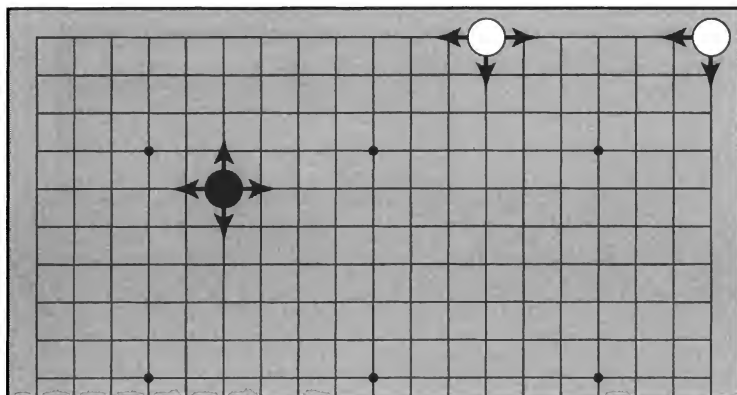
1. 9
2. 19, 19
3. white
4. points
5. Black
6. territory
7. 10 points
8. 13 points
9. Black (5 points more)
10. Black (by 4 points)



# CAPTURING

*In the battle for territory, you may capture your opponent's stones, or your stones may be captured.*

## 1. LIBERTIES



*Diagram 1*

### *Diagram 1:*

One black stone is on the board. Notice the lines coming out from it. These lines are the stone's **liberties**. This is a translation of Chinese characters which mean “the way of activity” or “the road of life.”

A stone in the middle has four liberties. A stone on the edge has three liberties. A stone in the extreme corner has only two liberties.

## 2. CAPTURE

What happens when all the liberties of a stone are blocked?

### Diagram 2:

Four black stones are blocking all the liberties of the white stone. There are no lines coming out from it, so White is surrounded completely. Stones without any liberties are **captured**. Once stones are captured, they are taken off the board.

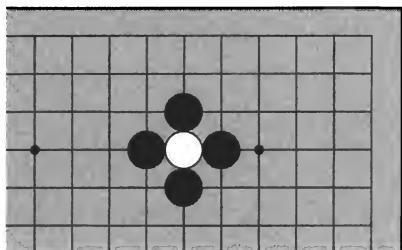


Diagram 2

### Diagram 3:

This is the result of capturing the white stone. Stones that you have captured are like prisoners of war. These stones are put in the lid of your bowl. Keep track of your prisoners, as they have value.

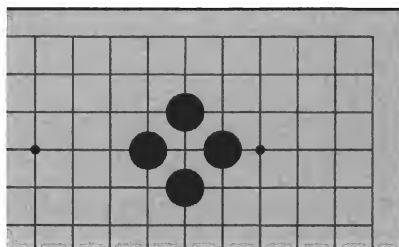


Diagram 3

### Diagram 4:

On the edges, three of your stones are needed to capture your opponent's stone. In the extreme corners, just two stones are needed.

Stones without liberties are like soldiers that have been surrounded completely. They are removed from the board and held prisoner in the lids of the bowls. **Except when captured, stones do not move.**

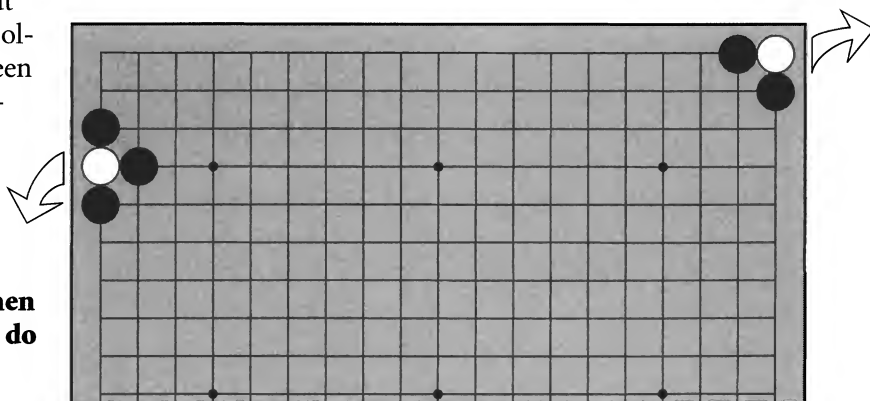
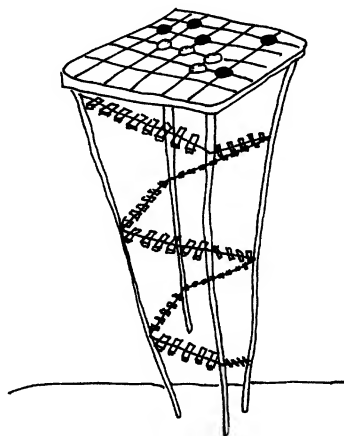


Diagram 4

### 3. ATARI

Stones with only one liberty are said to be in **atari**. Stones in atari can be captured on the next move. It is not necessary to say atari when you play a move that threatens to capture your opponent's stone. In Japanese, atari means a "hit." It is called *dansoo* in Korean, meaning "single" or "only one."



#### Diagram 5:

Three of the white stone's liberties are blocked. It has only one liberty left, so it is in atari. If Black puts another stone at A, the white stone is captured.

If it is White's turn, she can **run** by playing at A. Actually, you can't move a stone, but you can play another stone, linking the stone in danger to a stone on safer ground.

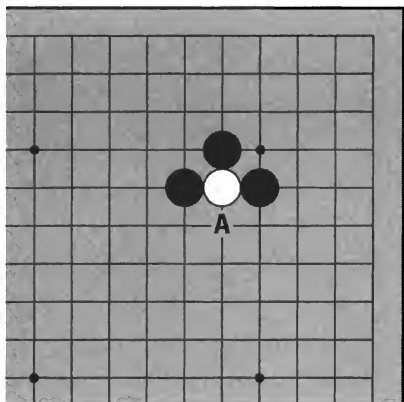


Diagram 5

#### Diagram 6:

If White plays at 1, the original stone has not moved, but it is no longer in atari. Black cannot capture it with his next move.

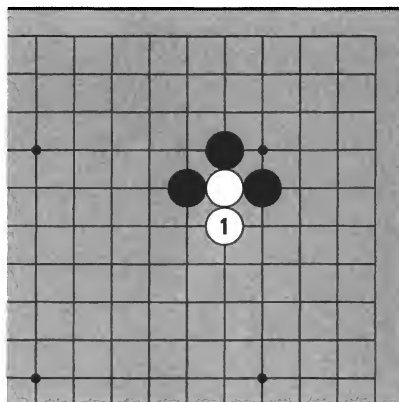


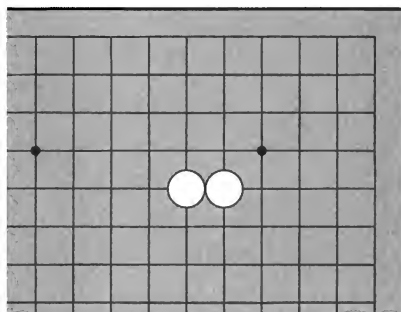
Diagram 6

## 4. CAPTURING MORE THAN ONE STONE

No matter how many stones there are, if all their liberties are blocked, the stones are captured.

### *Diagram 7:*

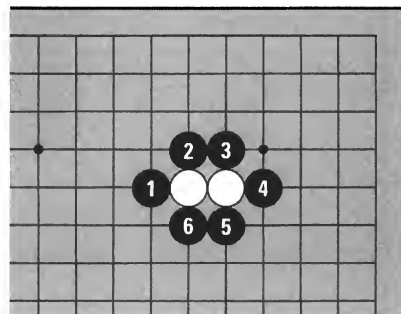
Here are two white stones. How can Black capture them?



*Diagram 7*

### *Diagram 8:*

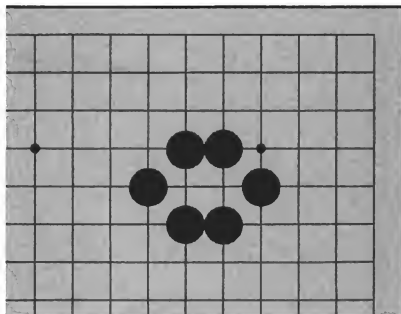
Black can block all White's liberties in six moves. (Black and White take turns, so White must have chosen to play five moves elsewhere.)



*Diagram 8*

### *Diagram 9:*

This is the result of capturing the two white stones. Black has two prisoners and two points of territory.



*Diagram 9*

### Diagram 10:

Three or more stones that have no liberties are also captured. If you capture stones, you take both prisoners and territory.

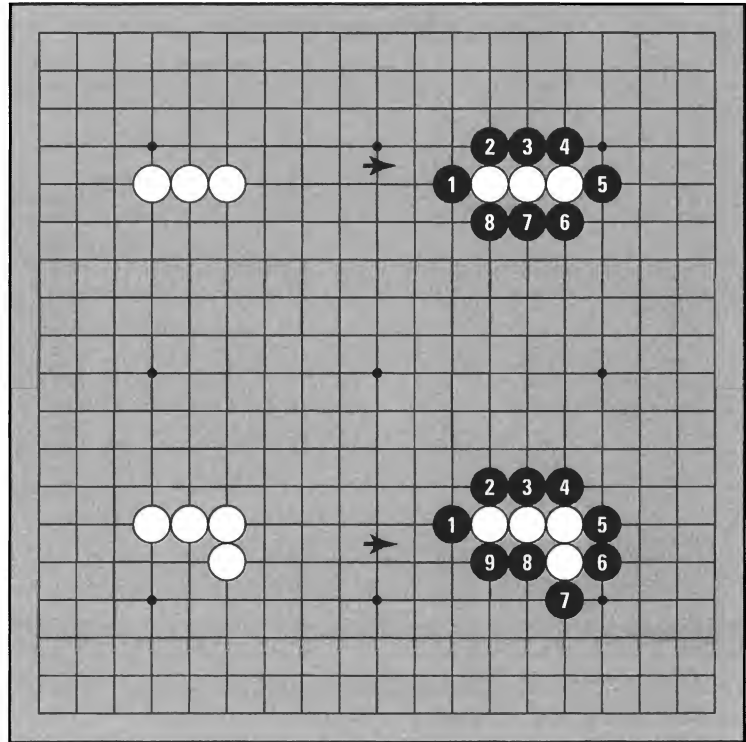
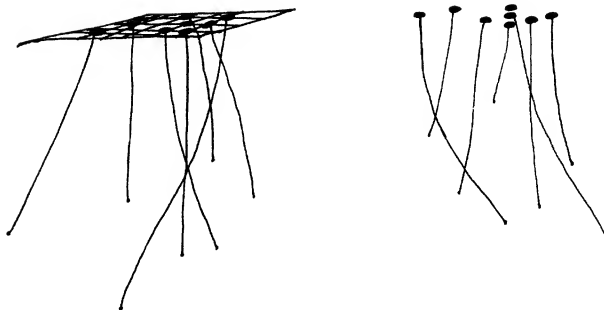


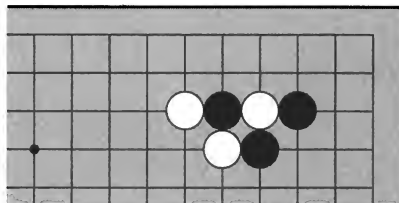
Diagram 10



# TRY IT YOURSELF

## Problem 1:

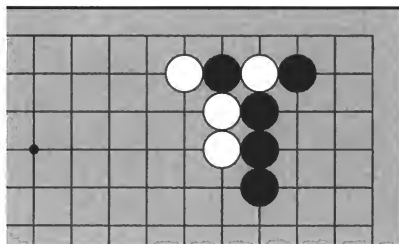
Both Black and White are in atari.  
Where can Black play to capture a stone?



Problem 1

## Problem 2:

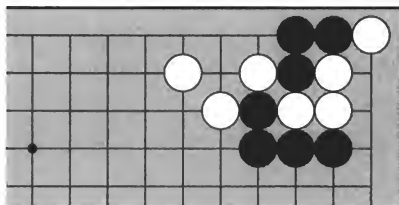
What stones are in atari? Where is a good place for Black to play?



Problem 2

## Problem 3:

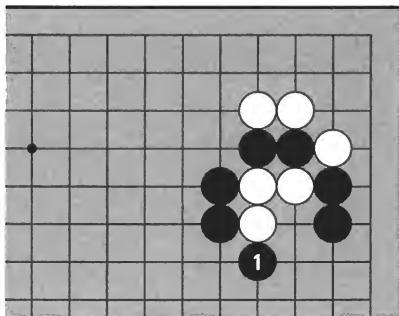
Three black stones in the corner are in atari. Do you see any other stones in atari? Black can capture a stone blocking one of the liberties of his three stones. Where?



Problem 3

## Problem 4:

Black has just played 1. What stones are in atari? Where is a good place for White to play?



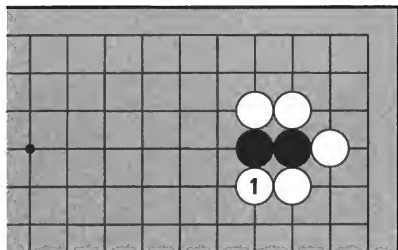
Problem 4



# TRY IT YOURSELF

## Problem 5:

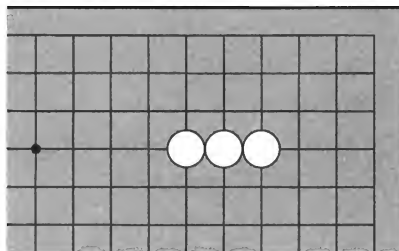
White 1 puts the two black stones in atari. What can Black do?



Problem 5

## Problem 6:

Where do black stones need to be in order to capture the three white stones?

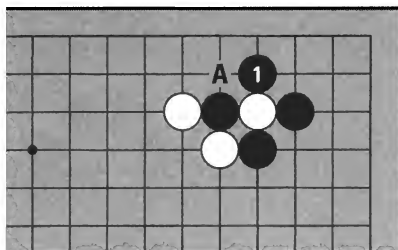


Problem 6

# ANSWERS

## Answer 1:

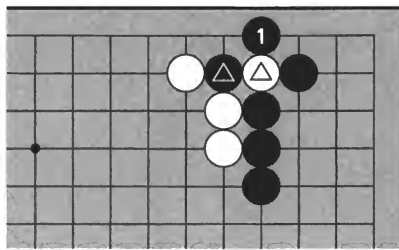
Black can capture a white stone at 1. If Black doesn't play at 1, White can capture a black stone by playing at A.



Answer 1

## Answer 2:

The marked stones are in atari. Black can capture the white stone at 1.

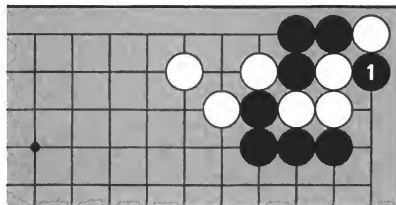


Answer 2

# ANSWERS

## Answer 3:

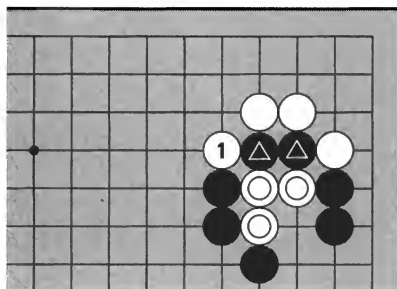
The white stone in the extreme corner blocking Black's liberty is also in atari. Black can capture it at 1. Since captured stones are removed immediately, Black's three stones are no longer in atari.



Answer 3

## Answer 4:

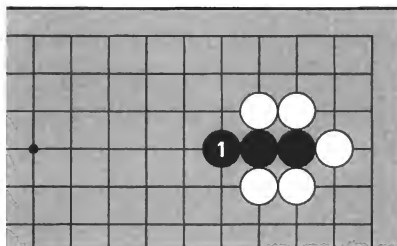
The two black and three white marked stones are in atari. White can capture the two black stones with 1. After capturing, White's three stones are no longer in atari.



Answer 4

## Answer 5:

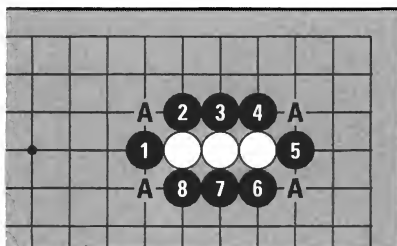
Black can run by playing 1. Black is no longer in atari.



Answer 5

## Answer 6:

To capture, Black needs to block all White's liberties. You don't need to block at the points marked A because they are not liberties.



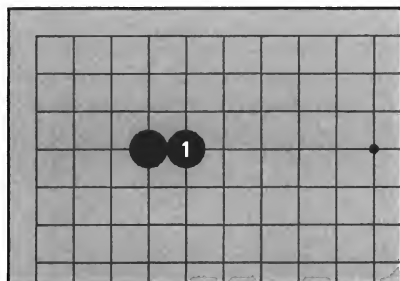
Answer 6

# 3

## CONNECTING AND CUTTING

### 1. *CONNECTING*

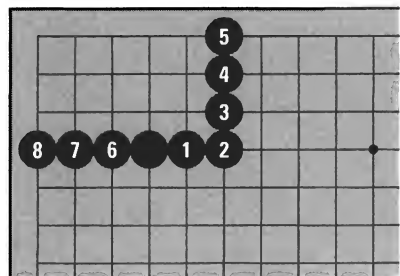
Stones are **connected solidly** when they are on adjacent points connected by a line. This entails playing a stone on your own liberty.



*Diagram 1*

#### *Diagram 1:*

Black 1 plays next to another black stone. These two stones are connected solidly.



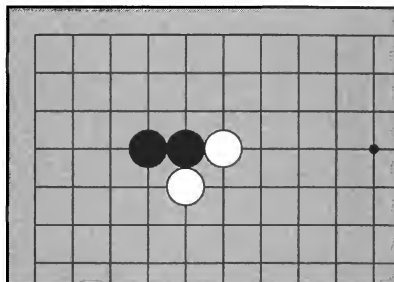
*Diagram 2*

#### *Diagram 2:*

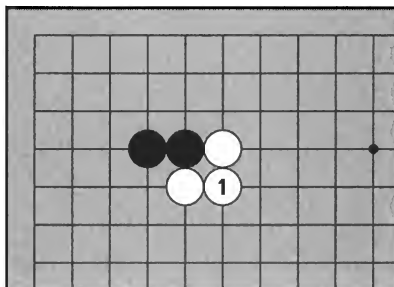
Connections are the foundation of territory. The stones from 1 to 8 are all connected. Black has made territory in the corner.

**Diagram 3:**

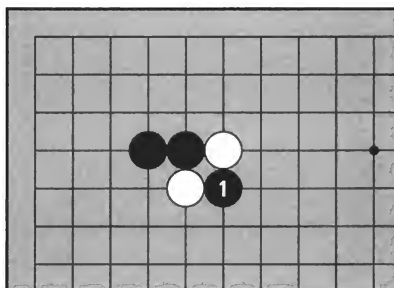
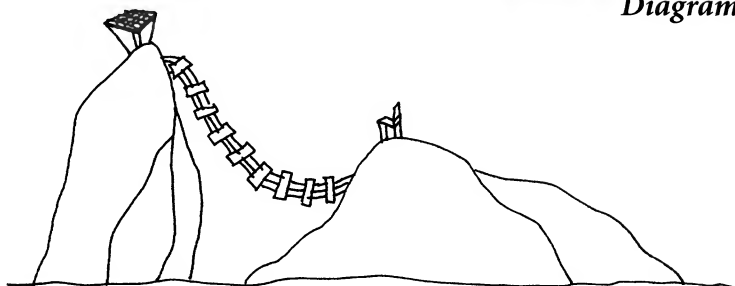
Black's two stones are connected but White's are not. Where can White play to connect?

**Diagram 3****Diagram 4:**

When White plays 1, all her stones are now connected. If White does not connect, Black can cut these stones.

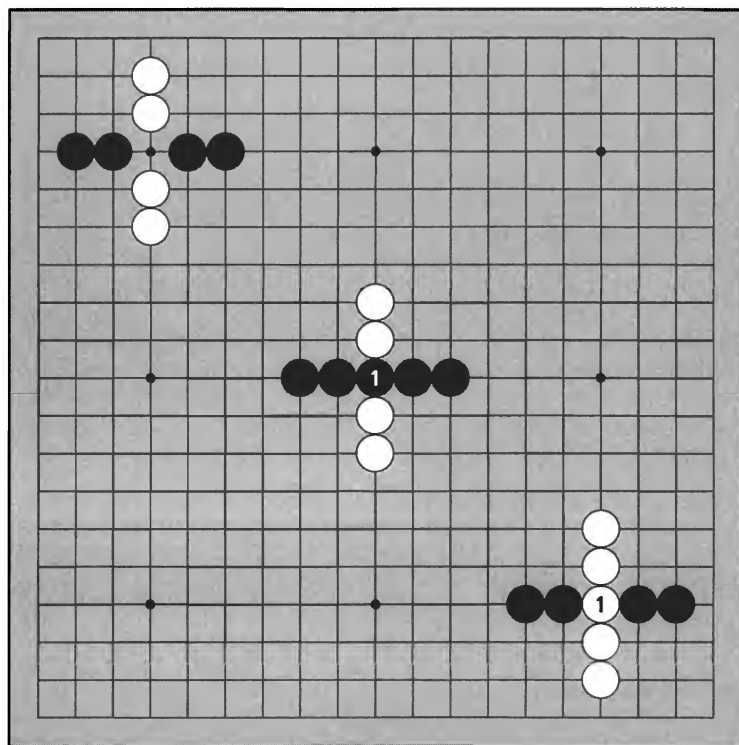
**Diagram 4****Diagram 5:**

If it is Black's turn, he can play at 1 to prevent the connection. These white stones are now cut. Stones that are cut act alone and have few liberties, so they are weak and are captured more easily.

**Diagram 5**

## 2. CUTTING

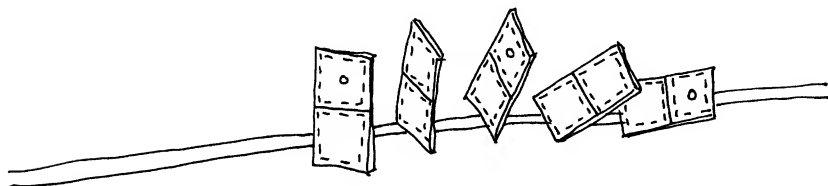
If stones are prevented from connecting, they are said to be cut off from each other, or just **cut**. Cutting entails playing where your opponent needs to play to connect.



*Diagram 6*

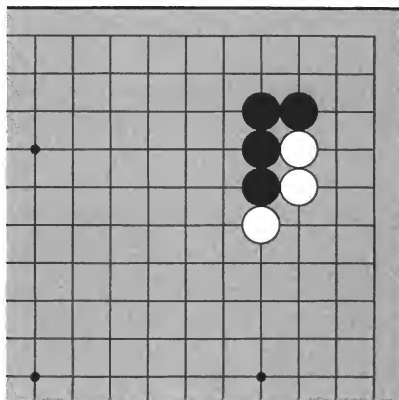
### *Diagram 6:*

In the upper left, Black and White have similar shapes and four stones each. In the center, Black is connected and White is cut. In the lower right, White is connected and Black is cut. It makes a big difference who plays at 1: **connected stones are strong and cut stones are weak.**

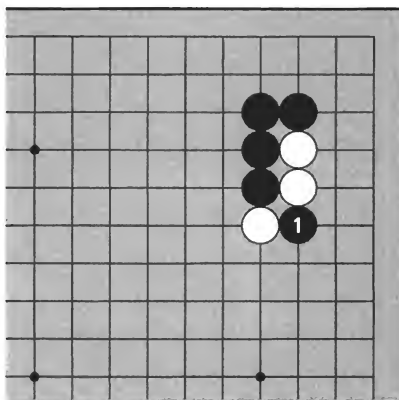


**Diagram 7:**

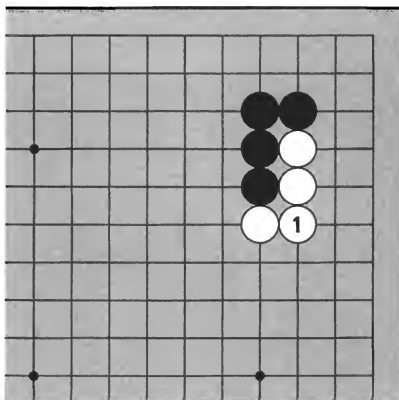
This is a common shape. All the black stones are connected but the white stones are not. If Black wants to cut, where should he play?

**Diagram 7****Diagram 8:**

If Black plays at 1, the white stones are now cut. White's position has become fragile.

**Diagram 8****Diagram 9:**

If it is White's turn, she can play at 1. White is now connected.

**Diagram 9**

### 3. THE DIAGONAL

When you play next to one of your stones on your own liberty (a line coming out from one of your stones), the stones are connected solidly. There are also indirect ways of connecting.

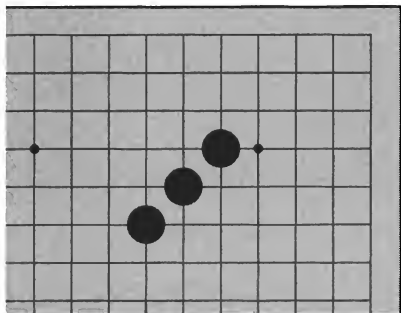


Diagram 10

#### Diagram 10:

Three black stones stand in a **diagonal**. Are these stones connected?

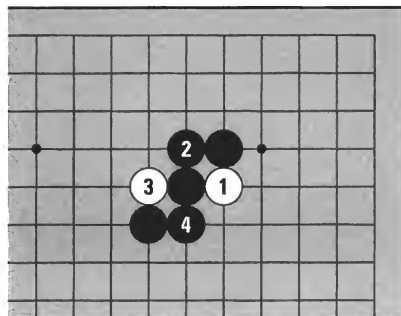


Diagram 11

#### Diagram 11:

Stones in a diagonal are not connected by lines, but if White plays 1, Black can play 2, and if White plays 3, Black can play 4, so White cannot cut. The diagonal is not a solid connection, but it cannot be cut because you and your opponent take turns.

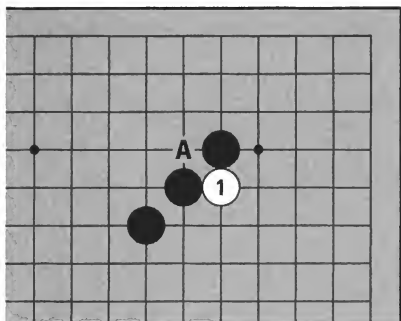


Diagram 12

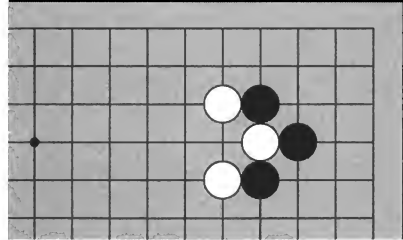
#### Diagram 12:

When White plays 1, if Black plays elsewhere, White can cut by playing at A. When White plays 1, Black has to play to stay connected.

# TRY IT YOURSELF

## Problem 1:

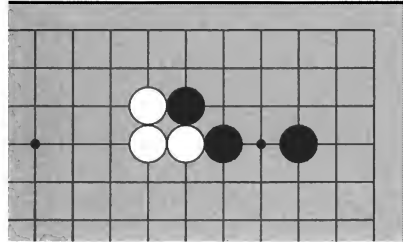
One white stone is in atari. Can you connect all the white stones?



Problem 1

## Problem 2:

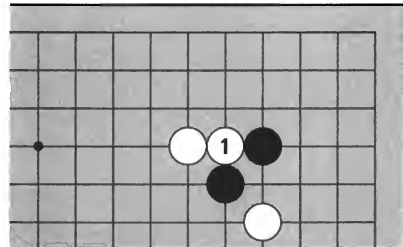
Where can Black play to prevent White from cutting off a stone?



Problem 2

## Problem 3:

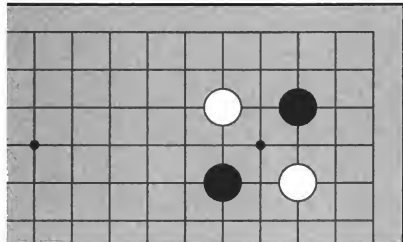
What does White 1 mean and how should Black play?



Problem 3

## Problem 4:

How can Black connect the two black stones?



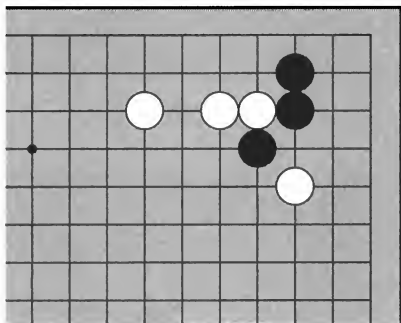
Problem 4



# TRY IT YOURSELF

## Problem 5:

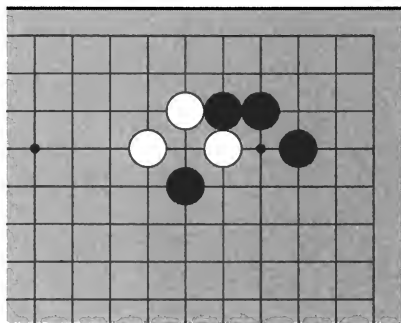
White's turn to play. Where is Black's weak point?



Problem 5

## Problem 6:

If Black wants to cut off one white stone, where should he play?

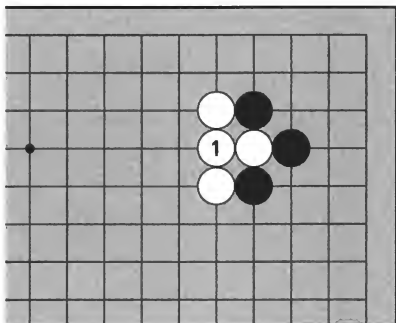


Problem 6

# ANSWERS

## Answer 1:

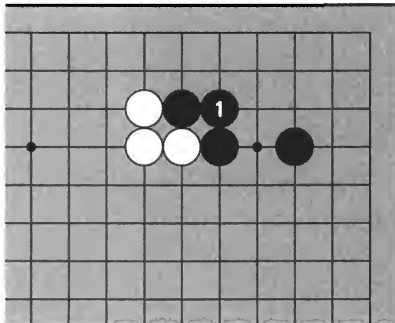
White 1 connects all her stones.



Answer 1

## Answer 2:

Black 1 connects the weak point.

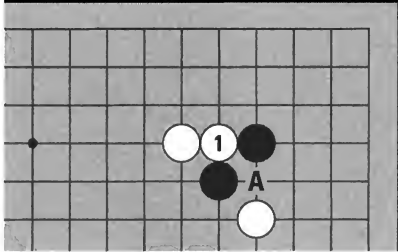


Answer 2

# ANSWERS

## Answer 3a:

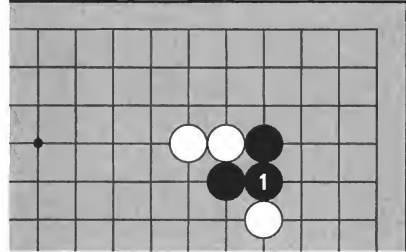
If Black doesn't respond to 1, White can cut at A. This is dangerous for Black, so—



Answer 3a

## Answer 3b:

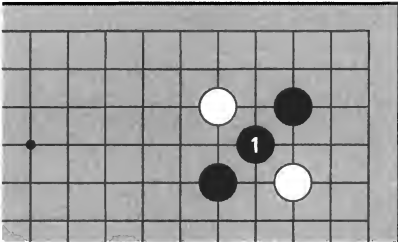
Black should connect.



Answer 3b

## Answer 4:

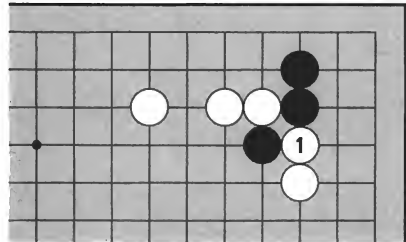
Black 1 connects diagonally.



Answer 4

## Answer 5:

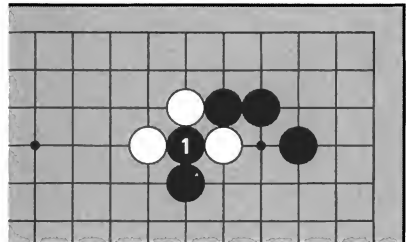
White 1 cuts Black in two. Black is in a difficult situation.



Answer 5

## Answer 6:

Black 1 cuts off one white stone.



Answer 6

# 4

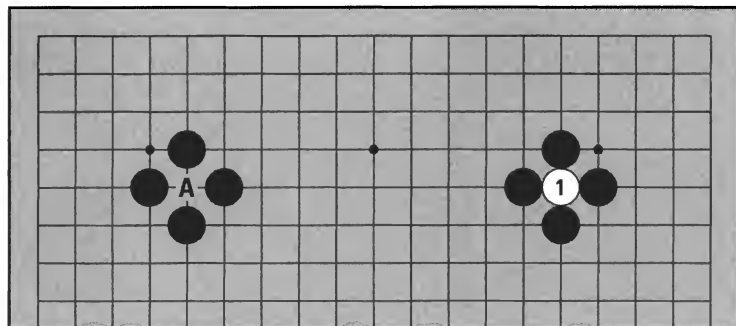
## WHERE YOU CAN'T PLAY

*For the most part, you can put your stones anywhere you like. Let's look at a place where you can't play.*

### 1. *THE POINT WITHOUT LIBERTIES*

#### **Diagram 1:**

The shape on the left looks like the result when Black captures a stone. Can White play at A?

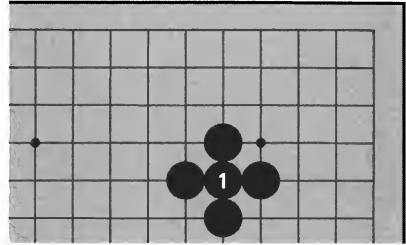


**Diagram 1**

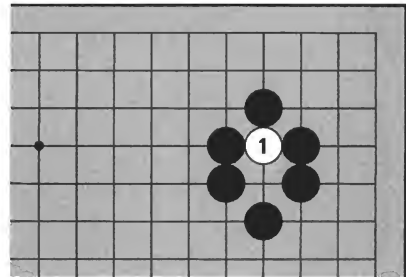
If White tries to play here, as on the right, White 1 doesn't have any liberties, so it is captured. Since captured stones are taken off the board, it looks like White didn't play but just gave Black a stone. You can't put a stone on a point without liberties.

**Diagram 2:**

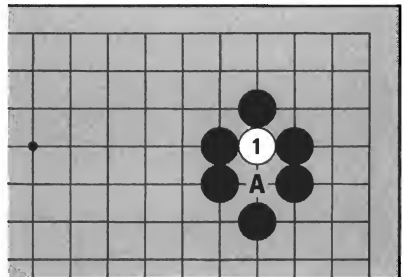
Black 1 is not the same as White 1. Black 1 is connected to the other black stones and shares liberties with them.

**Diagram 2****Diagram 3:**

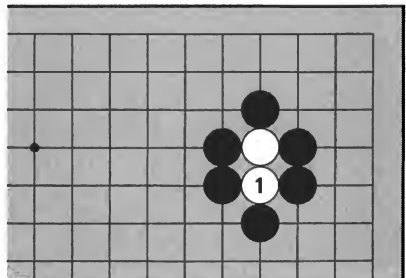
Can White play 1?

**Diagram 3****Diagram 4:**

White can play 1 because White's stone has a liberty at A. (Black can capture White 1 easily by playing at A, so White 1 has little meaning, but it still remains on the board.)

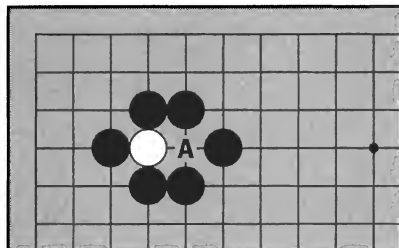
**Diagram 4****Diagram 5:**

How about White 1? This point has no liberties, so White cannot put a stone here.

**Diagram 5**

## 2. *GAINING LIBERTIES BY CAPTURING*

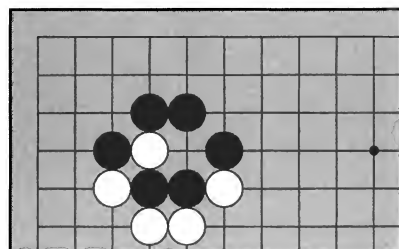
If your opponent's stones are in atari you can capture them by blocking their last liberty. You gain liberties when taking out captured stones.



*Diagram 6*

### *Diagram 6:*

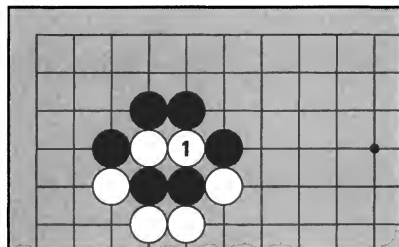
In this position White cannot play at A, because this point has no liberties.



*Diagram 7*

### *Diagram 7:*

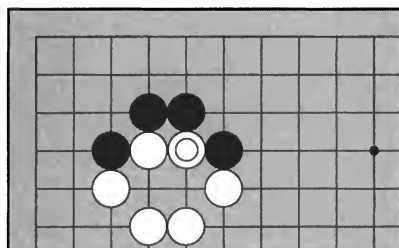
Here, the two black stones at the bottom are in atari. Atari means the stones can be taken out on the next move.



*Diagram 8*

### *Diagram 8:*

In this case, the two black stones are captured by White 1.



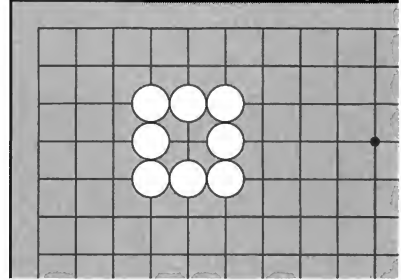
*Diagram 9*

### *Diagram 9:*

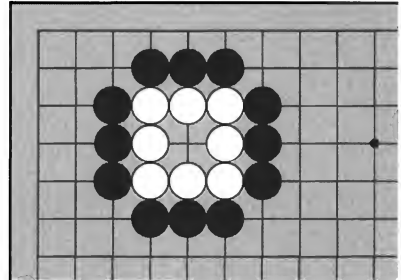
This is the result. White could play at 1 in the previous diagram (the marked stone here) because Black was in atari and White gained additional liberties by capturing.

**Diagram 10:**

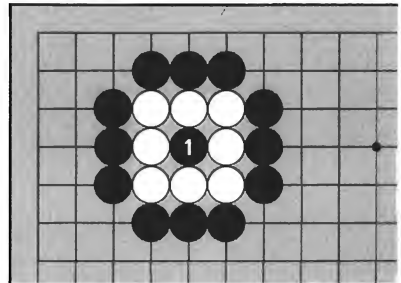
These eight white stones are connected and have one point of territory. Black cannot play in the center of this shape right now, because a stone there would be just taken out.

**Diagram 10****Diagram 11:**

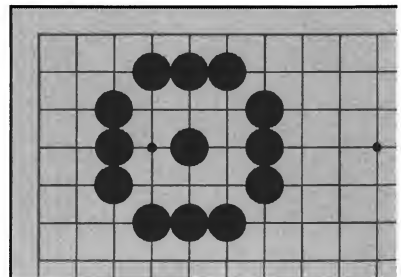
But if Black blocks all the outside liberties of the white stones, White will be in atari.

**Diagram 11****Diagram 12:**

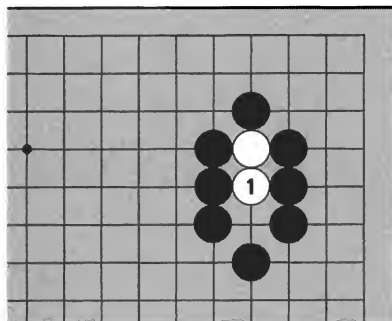
Now Black can play at 1 and take out all the white stones. (Black cannot play at 1 if White has even one liberty on the outside, because White would not be in atari.)

**Diagram 12****Diagram 13:**

This is the result.

**Diagram 13**

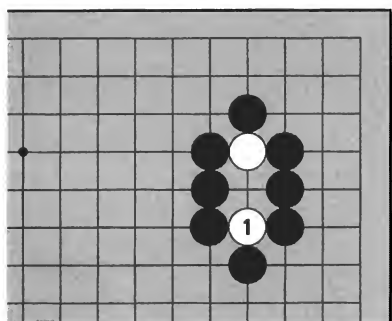
# TRY IT YOURSELF



**Problem 1**

**Problem 1:**

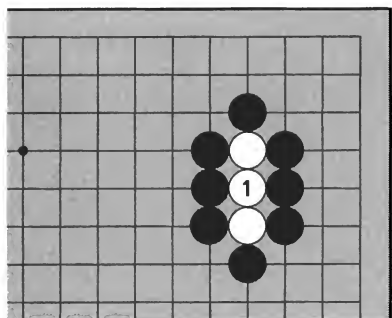
*Can White play 1?*



**Problem 2**

**Problem 2:**

*Can White play 1?*



**Problem 3**

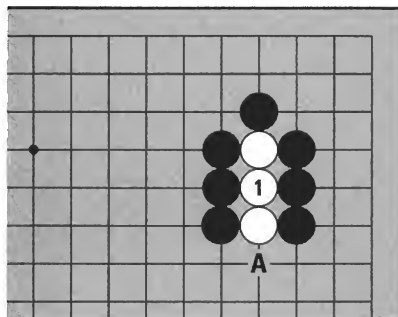
**Problem 3:**

*Can White play 1?*

# TRY IT YOURSELF

## Problem 4:

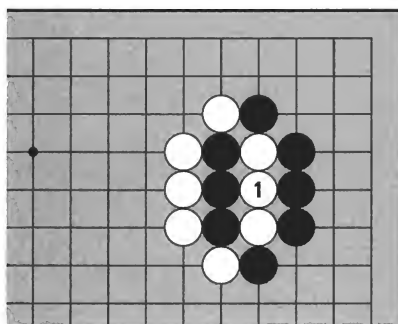
If White connects at 1, the three white stones will be in atari. If Black plays next at A, the three stones will be captured. Can White play 1?



Problem 4

## Problem 5:

Can White play 1?



Problem 5

# ANSWERS

## Answer 1:

White can play 1 because these two stones have a liberty.

## Answer 2:

White can play 1 because this stone has a liberty.

## Answer 3:

White can't play 1 because these three stones have no liberties.

## Answer 4:

White can play 1. It's suicidal but these stones do have a liberty at A.

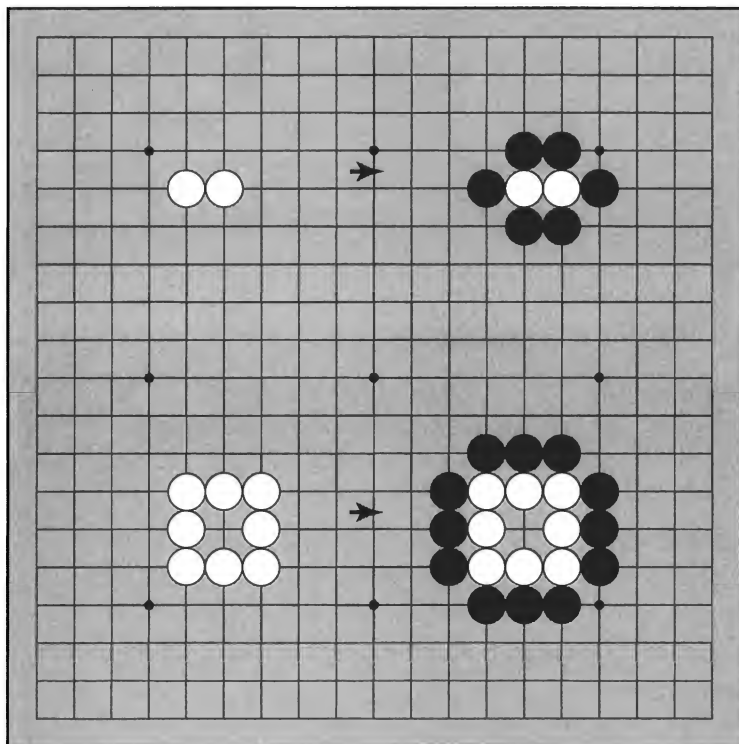
## Answer 5:

White can play 1. It looks like her three stones have no liberties, but here the three black stones are in atari, so White can gain liberties by capturing them.



# LIFE AND DEATH

*If you understand the principles behind capturing, you can “unpack” them to discover their consequences — stones that have no liberties are removed from the board, therefore you can’t play on a point without liberties, unless you gain liberties by capturing. At the bottom of the suitcase are the logical conclusions of these principles: life and death.*



*Diagram 1*

## **Diagram 1:**

If all the liberties of the two white stones are blocked, they will be captured. Even if White’s stones have a point of territory, if all their outside liberties are blocked, they will be in atari and can be captured. But some stones cannot be captured.

# 1. LIFE

## Diagram 2:

The black group of stones in the upper left corner has two separate points of territory. Even if all their outside liberties are blocked completely, White cannot capture these stones. For White to capture, the black stones first must be in atari. But these stones can never be placed in atari.

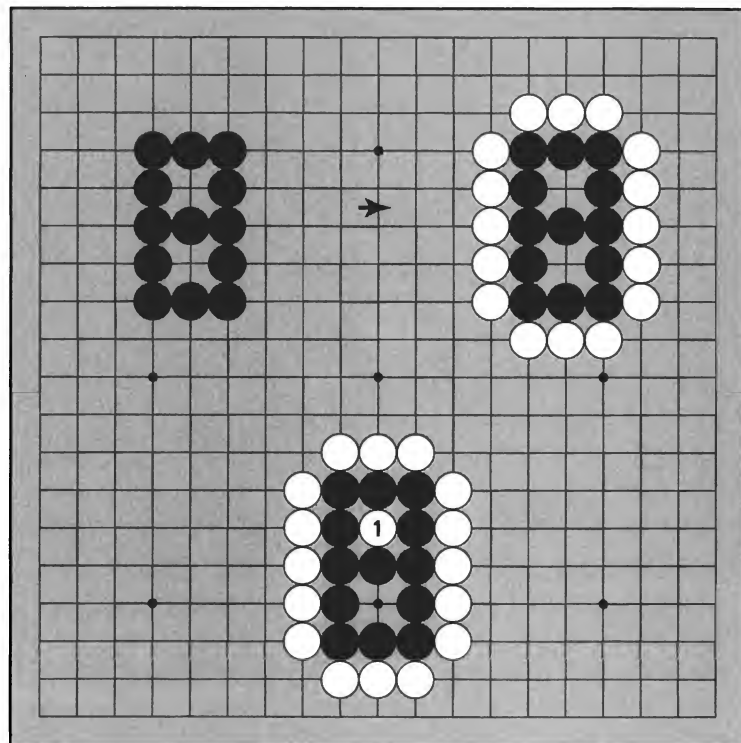
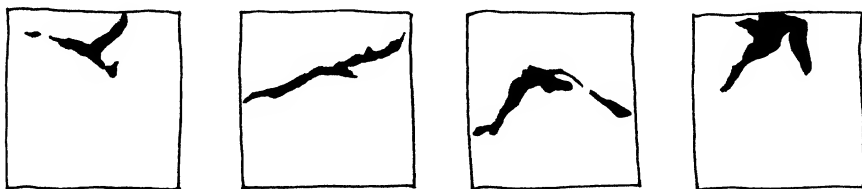


Diagram 2

Even after Black is surrounded completely, White cannot play 1, because a stone there is just taken off. Since you cannot play on a point without liberties, these black stones cannot be put in atari. Any group with at least two separate points of territory cannot be put in atari, and so cannot be captured. Stones which cannot be captured are **alive**.



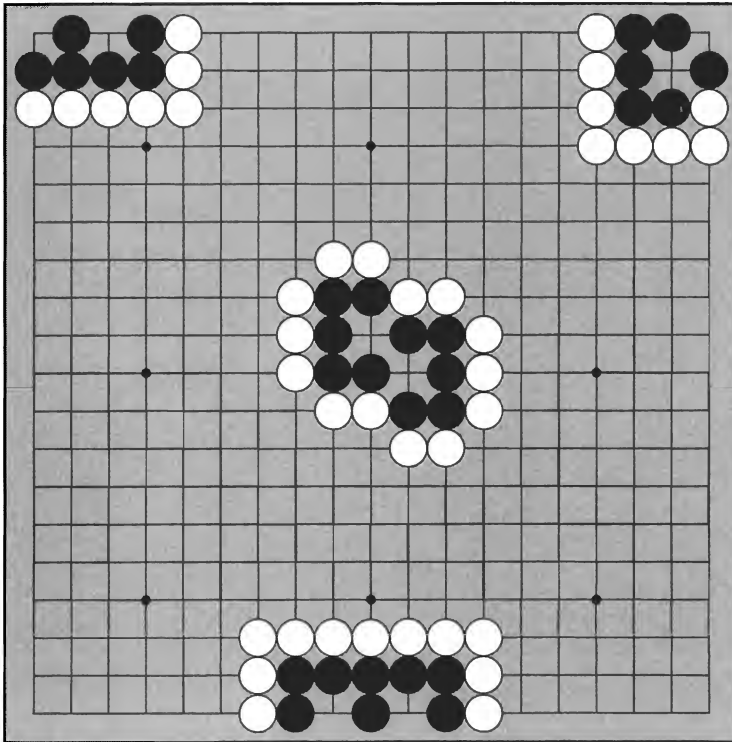
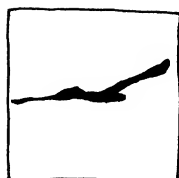
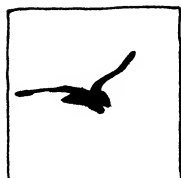
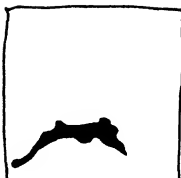


Diagram 3

### Diagram 3:

Each of these black groups has two separate points of territory. Even though they are surrounded, they cannot be captured, so they are alive. It takes fewer stones to make two separate points of territory in the corners than on the sides or in the center, so it is easiest to live there.



## 2. DEATH

Even if a group has two points of territory, if the two points are not separated, the group is not alive.

### Diagram 4:

The black stones in the upper left corner have two points of territory, but the points are not separated. These stones can be captured.

To take out these stones, White can play at 1. This is possible because White 1 has a liberty. The black stones are now in atari, so they can be captured on the next move. White 1 is in atari also, so Black can capture it with 2, but after capturing his group is still in atari. Next White can capture all his stones with 3. Stones that can be captured are **dead**.

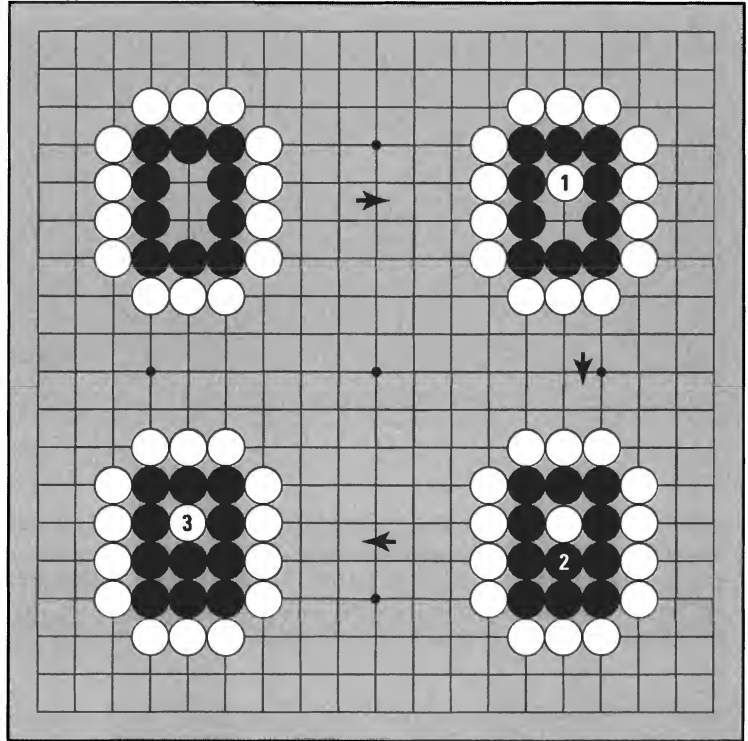
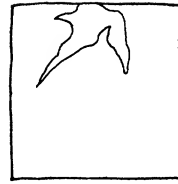
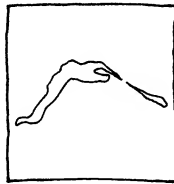
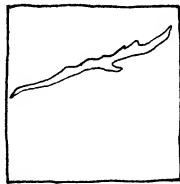
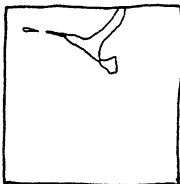
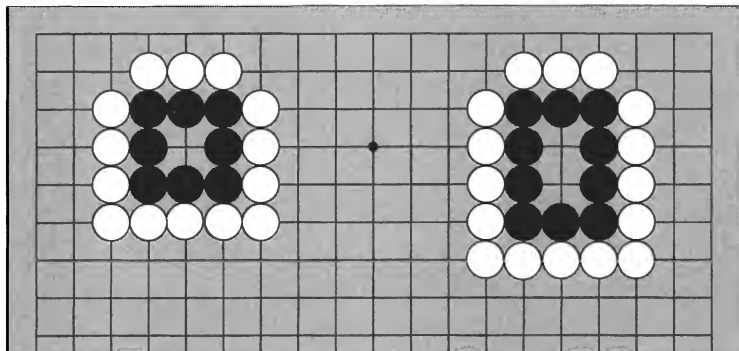


Diagram 4



### 3. CONDITIONS FOR LIFE

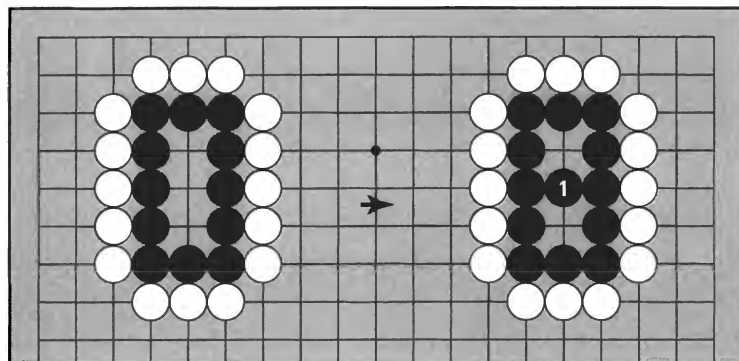
Stones must have at least two separate points of territory for life. These two separate points are called **eyes** (*jip* in Korean, meaning “house,” or *meh* in Japanese, meaning “eye”). Some shapes can make two eyes.



*Diagram 5*

#### *Diagram 5:*

These black groups are surrounded and have only one eye. They can't live because they don't have enough room inside to make two eyes.



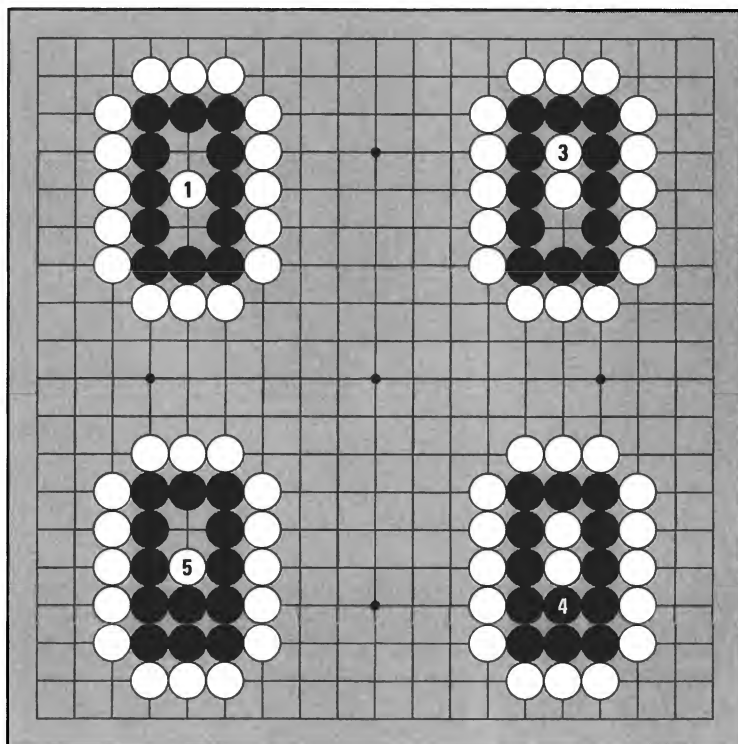
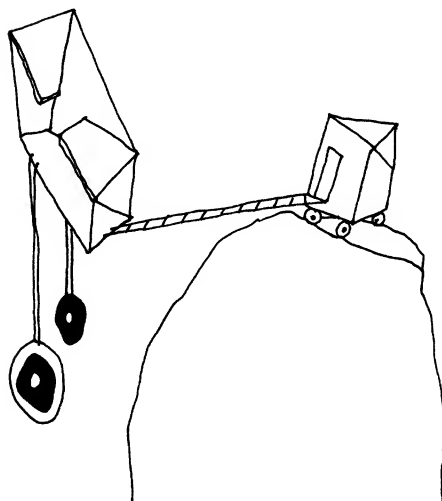
*Diagram 6*

#### *Diagram 6:*

The black group on the left has three points of territory in a straight line. If Black plays 1, as on the right, this group will have the two eyes necessary for life. If Black does not play 1, White can move in for the kill.

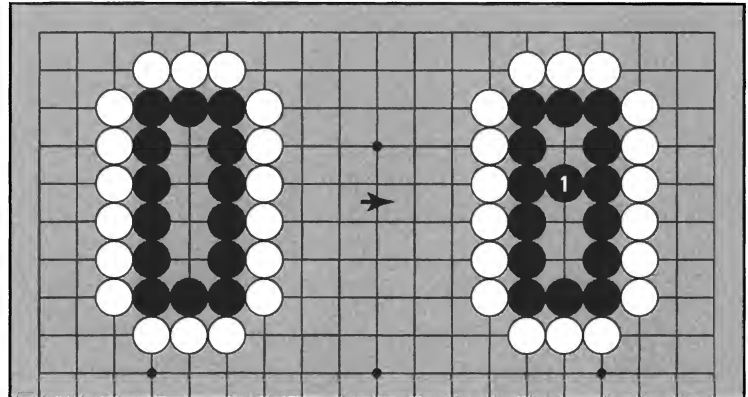
**Diagram 7:**

If Black doesn't play at 1, White will play there. Now Black's group is dead. Black doesn't have a good move here, since any move he makes would just be putting his stones in atari. If White wants to take them out, she can play atari with 3. Black can capture the two white stones with 4, but this group still doesn't have two eyes. Finally, if White plays 5, Black is reduced to one liberty.

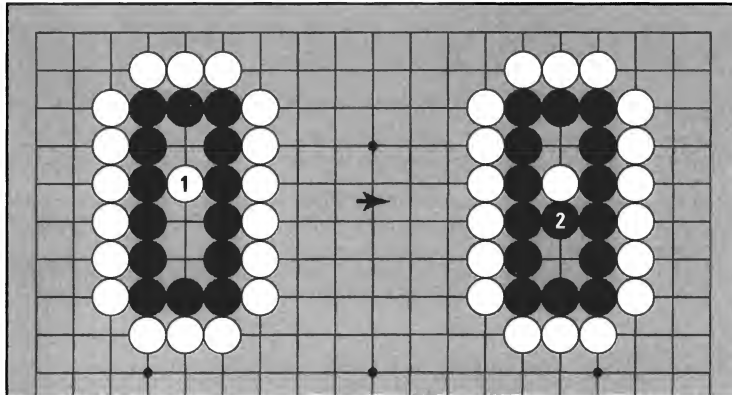
**Diagram 7**

**Diagram 8:**

Here Black has four points of territory in a straight line. If he plays at 1, he has two eyes, one of which is larger than the other. But even if Black doesn't play 1, this group is alive.



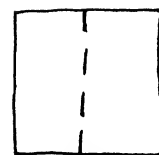
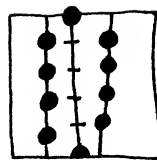
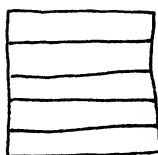
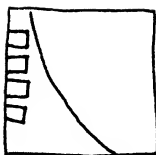
**Diagram 8**



**Diagram 9**

**Diagram 9:**

If White tries to kill with 1, Black can make two eyes by blocking at 2 as on the right. When there are four points in a straight line, it is not necessary to spend an extra move to make two eyes. Even if White attacks, Black has enough room to live.



## 4. FALSE EYES

A **false eye** looks like a real point of territory but it is not.

### Diagram 10:

Black is surrounded. Are these stones alive or dead? It looks like Black has two eyes, but the three black stones at the bottom are not connected solidly to the main group.

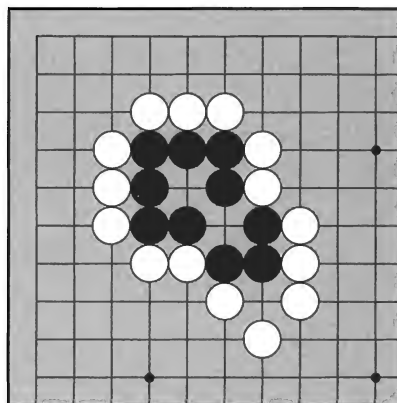


Diagram 10

### Diagram 11:

If White plays 1, the three stones are in atari. If Black connects at 2, Black has only one eye. But if Black does not connect at 2—

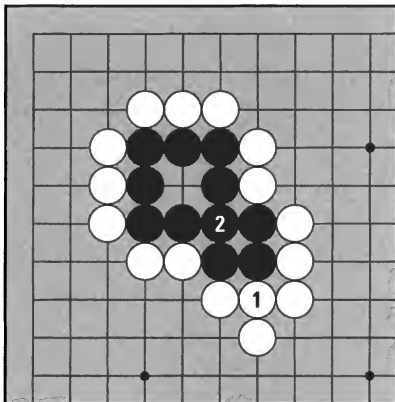


Diagram 11

### Diagram 12:

White can capture at 3. Once again, Black has only one eye. That's why Black in Diagram 10 is dead.

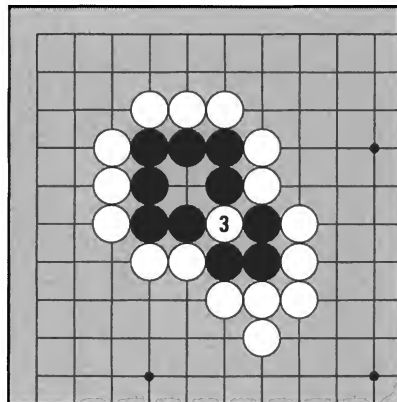
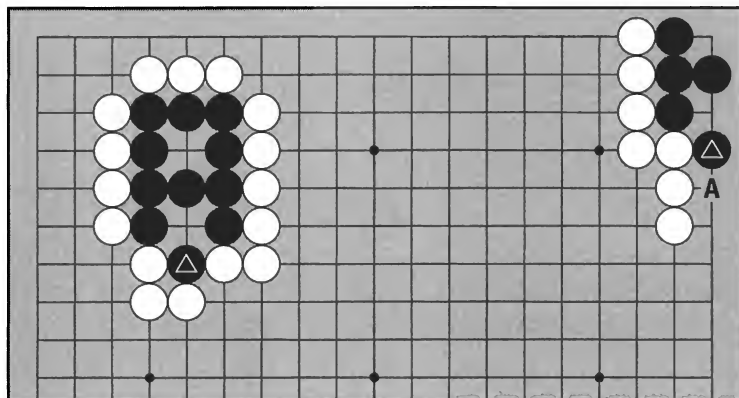




Diagram 12



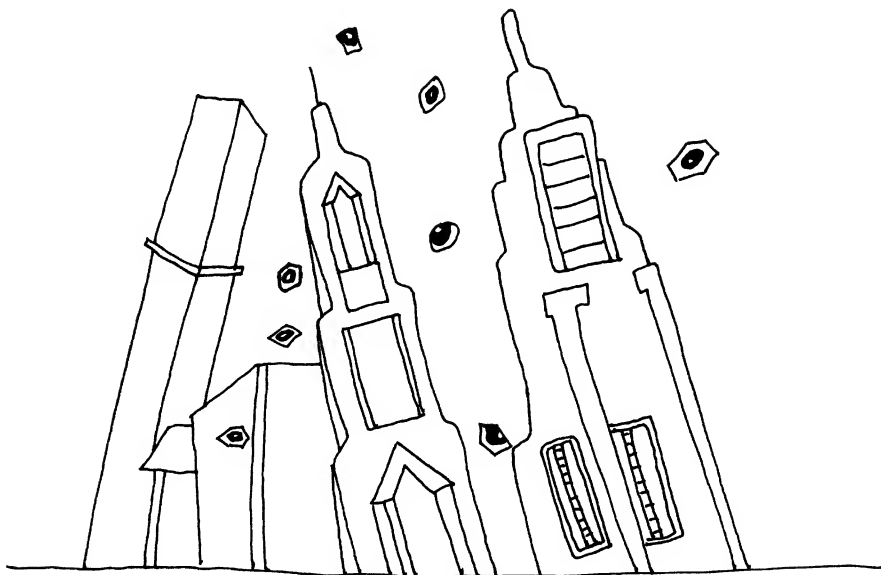


*Diagram 13*

**Diagram 13:**

The black group on the left does not have two eyes because Black  is not connected solidly to the main group. In fact, this marked stone is in atari. On the right, the black group has one eye in the corner but the second “eye” is false. (If White plays at A, Black  will be in atari.)

Neither of these groups can escape or make two eyes, so all these black stones are dead.



## 5. A SPECIAL FORM OF LIFE

Stones must have two eyes to live, but in some unusual cases, Black and White can live together without two eyes.

### Diagram 14:

The four black stones and three white stones are cut off and have no eyes. But these stones cannot capture or be captured by each other.

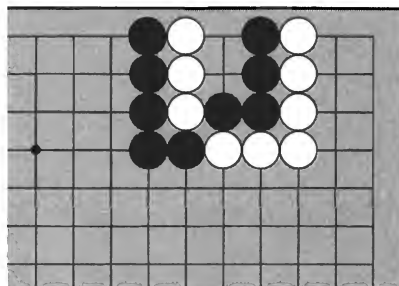


Diagram 14

### Diagram 15:

If Black plays 1, his stones will be in atari, so next White can capture them.

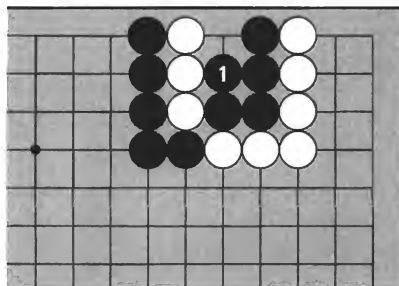


Diagram 15

### Diagram 16:

But if White plays 1, her stones will be in atari, so next Black can capture. This is a mysterious shape in which the first person to play here is captured. Therefore, no one wants to play here, and since one doesn't have to, a local stalemate is the result.

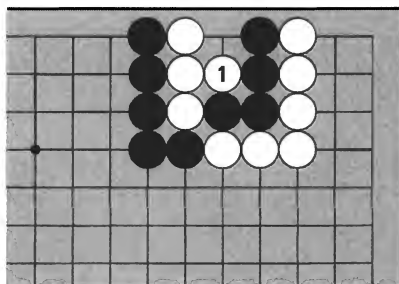
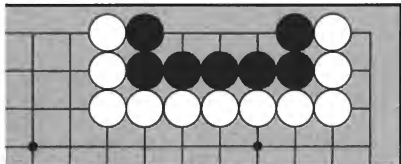


Diagram 16

This is called **dual life**. Dual life is called *seki* in Japanese and *beek* in Korean, meaning both sides have equal rights in an area and can't be captured. It's recommended that you avoid using the Japanese term, which means "offspring of a female canine" in Korean.

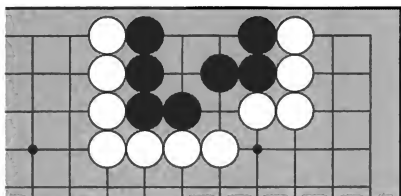
# TRY IT YOURSELF



**Problem 1**

**Problem 1:**

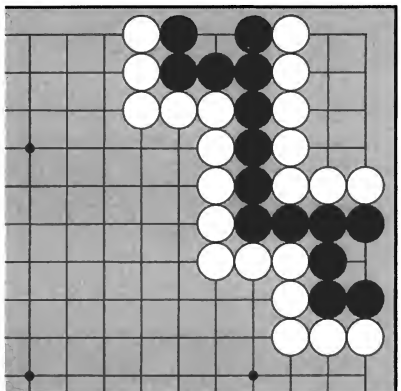
*Black is surrounded. Where should he play for life?*



**Problem 2**

**Problem 2:**

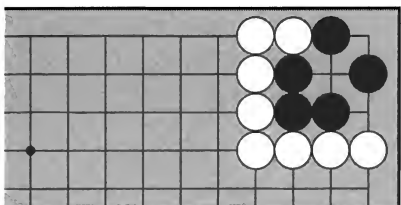
*If White wants to kill, where should she play?*



**Problem 3**

**Problem 3:**

*Black is surrounded. Is he alive or dead?*



**Problem 4**

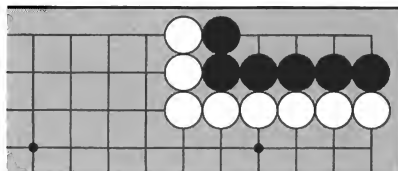
**Problem 4:**

*Is the black group in the corner alive as it stands, or does Black need to play?*

# TRY IT YOURSELF

## Problem 5:

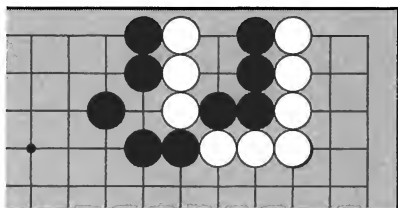
*Can White kill the black stones in the corner?*



**Problem 5**

## Problem 6:

*The three white stones and the four black stones are cut off and neither has eyes. Where can Black play to make dual life?*

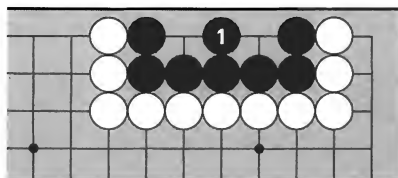


**Problem 6**

# ANSWERS

## Answer 1:

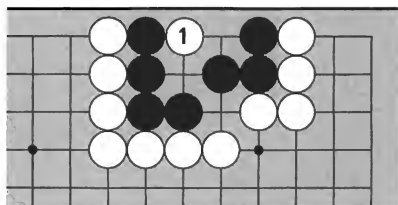
*Black 1 lives by making two eyes.*



**Answer 1**

## Answer 2:

*If White plays 1, Black is dead.*



**Answer 2**

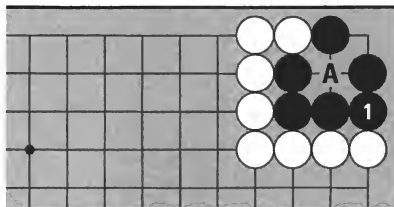
# ANSWERS

## Answer 3:

*Black is alive. Black has one eye on the top and another eye on the other end of the group. It has two separate points of territory so it is alive.*

## Answer 4:

*Black must play 1 to make an eye at A. If Black does not play 1, White can play there and A will become a false eye. (Notice the three black stones would be in atari if White played at 1.)*



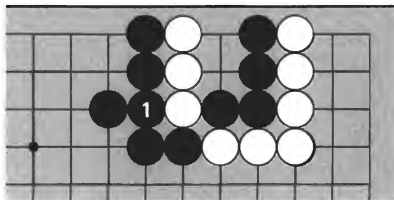
Answer 4

## Answer 5:

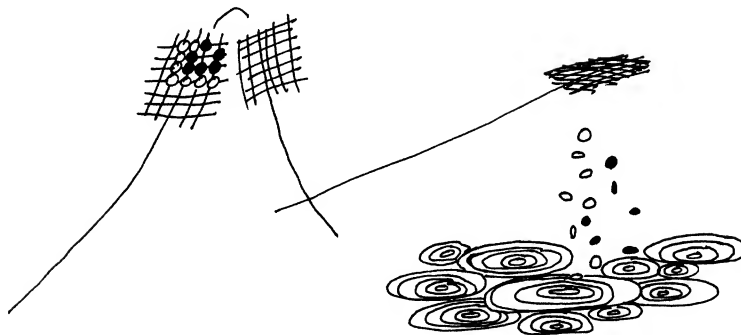
*White cannot kill. Four points in a straight line is alive as it stands.*

## Answer 6:

*Black can make dual life by playing 1. Neither side can capture the other in this position.*



Answer 6



# GO STRENGTH

Ability in Go is called **strength**. Go strength is distinguished by levels called **dan** (pronounced dahn), and **kyu** (Japanese) or **gup** (Korean). Although there is some variation in levels from country to country, we will use standard Korean rankings as a model.

After learning the rules of Go and playing one game, you are ranked 18 gup. As you improve, your level rises through 17 gup, 16 gup, etc., until you reach 1 gup. At this stage, you advance into the dan levels. The amateur levels range from 1 dan (entering level, called *shodan* in Japanese and *chodan* in Korean) to 6 dan (top level). The difference in levels is approximately one handicap stone. For example, if you take eight handicap stones from a 1 dan, you are approximately 8 gup.

There are about 700 professional Go players in the world today. Professionals are players who have advanced through the amateur ranks and then, by winning a special yearly national tournament held in China, Japan, and Korea, are awarded professional status. Pro levels are also measured in dan, ranging from 1 dan (entering level) to 9 dan (top level). The difference in these dan levels is too small for handicaps in professional competition.

Research indicates that the difference between top professionals and top amateurs is between two and three handicap stones. Amateurs also compete and teach like professionals do; “professional” is just a term indicating a kind of graduate degree in Go.

There are some other systems. For example, Westerners sometimes are ranked “20 kyu” or “30 kyu” in an attempt to make finer distinctions among beginners. Ranks can be confusing, but nothing to worry about—it’s best not to get too hung up on ranks if you want to get strong quickly. Play at a rank or a handicap that offers a challenge for both players, and change when it is appropriate. Many people like playing a series of games with one opponent, changing the handicap after two, three, or more straight victories. This is called playing *kadoban* (Japanese) or *chisugochigi* (Korean).

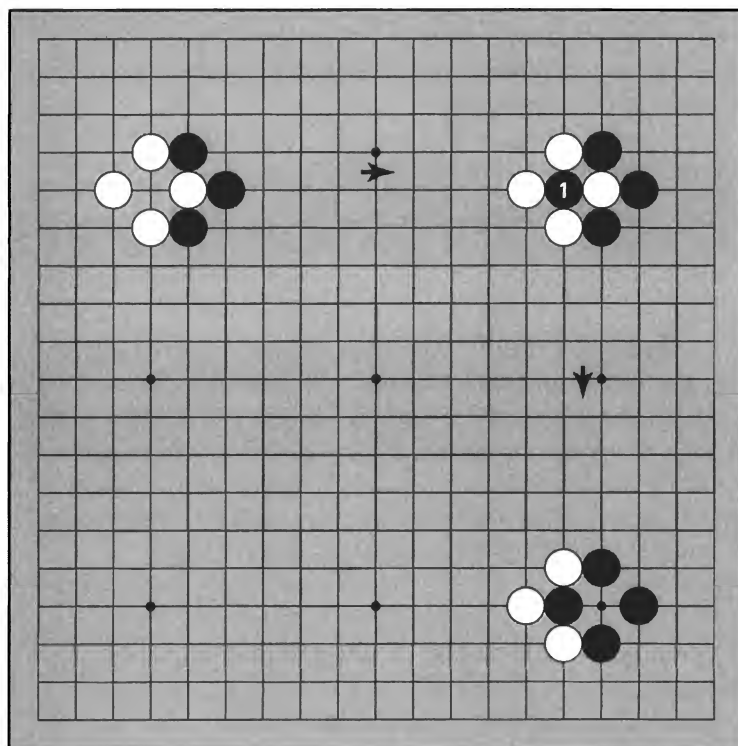
If you study Volume 1, you will be able to play at around the 15 gup level. Volumes II and III in this series cover the ground from 15 to 12 gup. Try your best and you may reach the amateur dan level within a year or two.

# 6

## Ko

***Ko** is a special shape in which Black and White can capture each other repeatedly. The rule of ko is important because it allows the game to continue.*

### 1. WHAT IS KO?



***Diagram 1:***

In the upper left corner, the white stone is in atari, so Black can capture it with 1. The resulting shape is shown in the lower right corner. Now the black stone is in atari. If White captures it, we return to the original position. This could go on forever; in fact, the Japanese word *ko* means “eternity.” Ko is called *pae* in Korean, meaning “no-man’s point” (like the demilitarized zone).

***Diagram 1***

## 2. THE RULE OF KO

When a stone captures in ko, it may not be captured immediately.

### Diagram 2:

Black captures the white stone in ko. White may not capture Black 1 immediately. Once White has played a stone anywhere else on the board, she may return to the ko to capture Black 1.

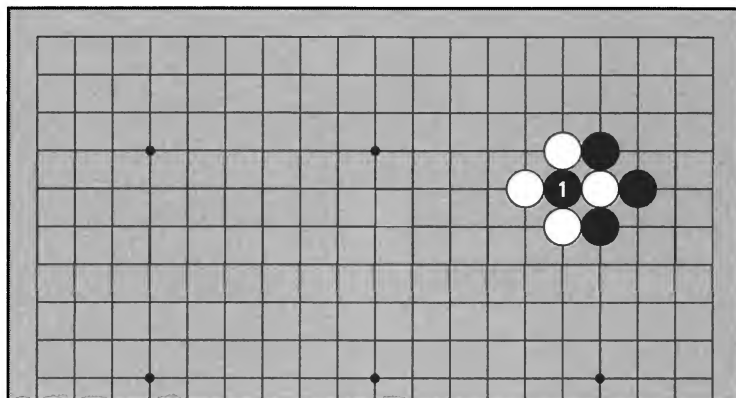


Diagram 2

### Diagram 3:

White 2 has played away from the ko in response to Black's capture. If Black plays somewhere else (at 3 for example) instead of connecting his stone in ko, White may return to capture it with 4. Now Black may not capture White 4 immediately, but must play somewhere else first.

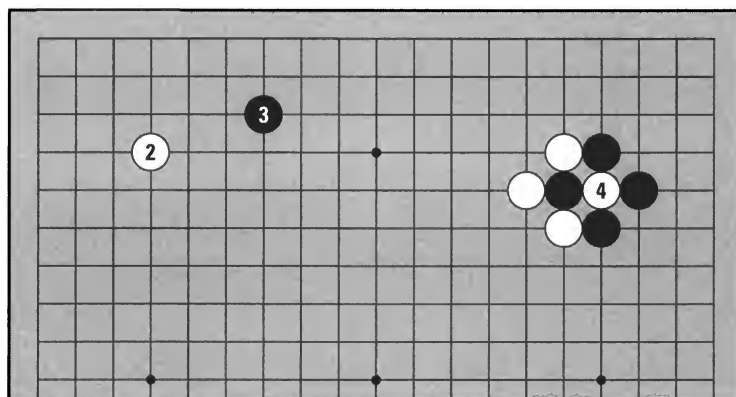
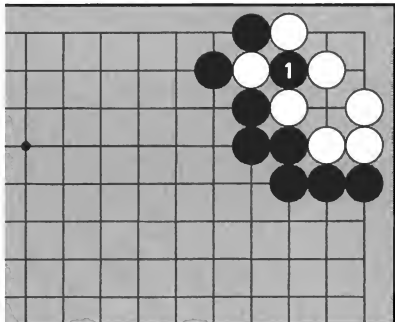


Diagram 3



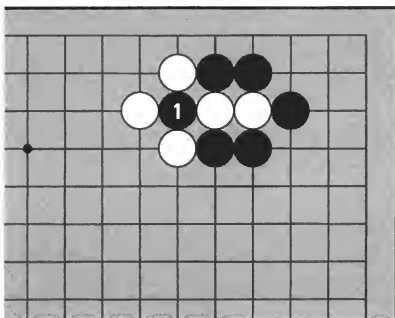
# TRY IT YOURSELF



**Problem 1**

## **Problem 1:**

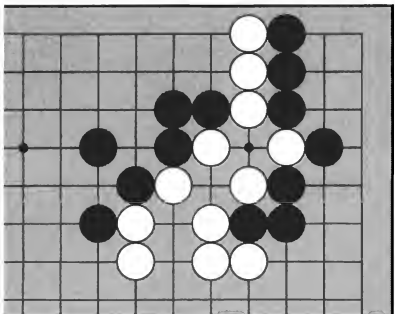
*Black 1 captures one white stone in ko. White wants to capture Black 1 but may not do so immediately. What does White have to do before capturing?*



**Problem 2**

## **Problem 2:**

*Black 1 has captured two white stones. Can White capture Black 1 immediately?*



**Problem 3**

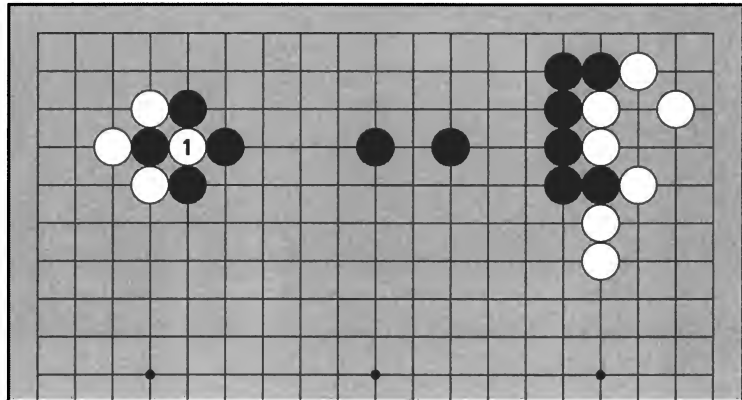
## **Problem 3:**

*Can you find the stone in ko for Black to capture?*

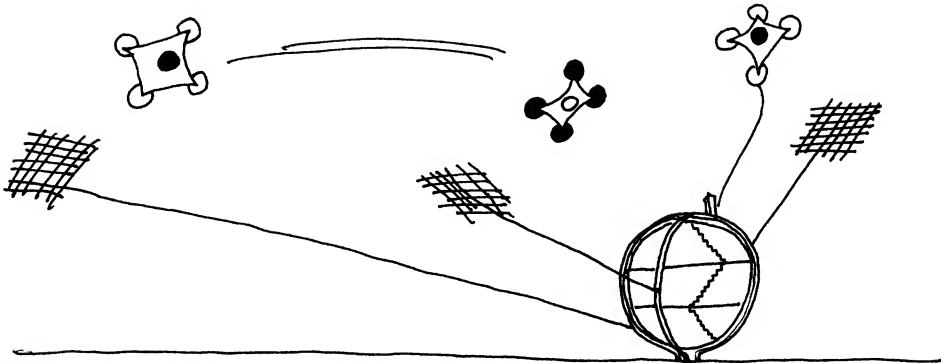
# TRY IT YOURSELF

## Problem 4:

White 1 captures one black stone in ko. Black wants to capture White 1 immediately but may not do so because of the rule of ko. Black must play somewhere else first. Can you think of a good place for Black to play, that is, a place where White will respond, so that Black can return to the ko? (Don't think too hard. Just try to find a place where Black can play that White should answer.)



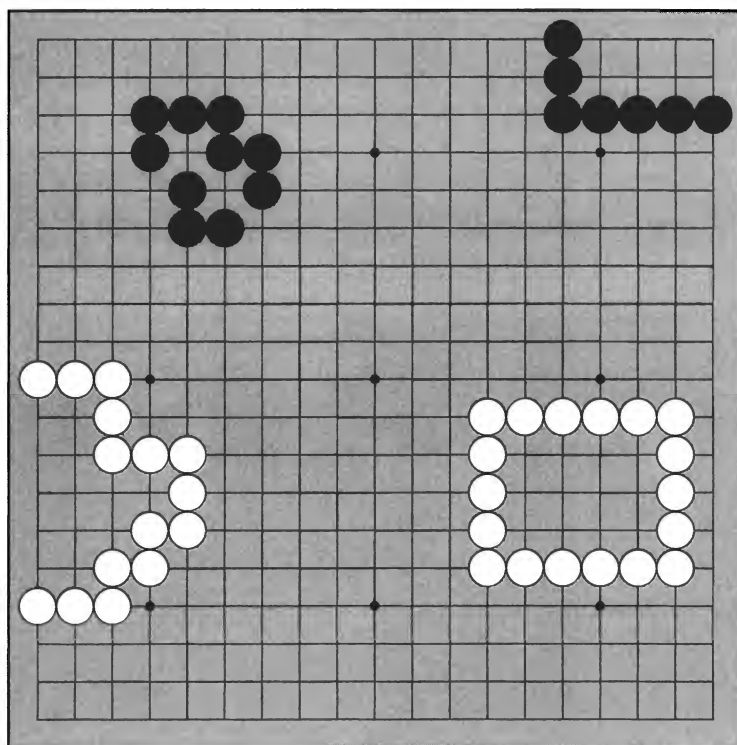
Problem 4



# 7

## TERRITORY

*Territory is the space inside a wall of stones of the same color. It comes in all shapes and sizes.*



**Diagram 1:**

Here are some different territories. In the upper left Black has two points of territory. In the upper right Black has eight points of territory. On the left side, White has an irregular shape with thirteen points of territory. White has twelve points of territory in the lower right.

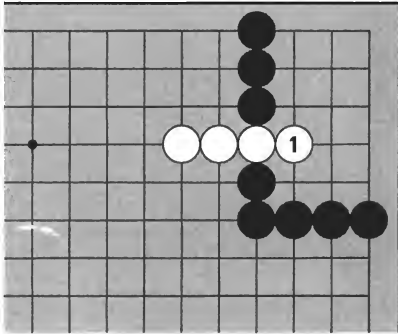
**Diagram 1**

## 1. CONDITIONS FOR TERRITORY

For an area to become territory, the surrounding walls cannot have any weak points that can be assaulted successfully.

### *Diagram 2:*

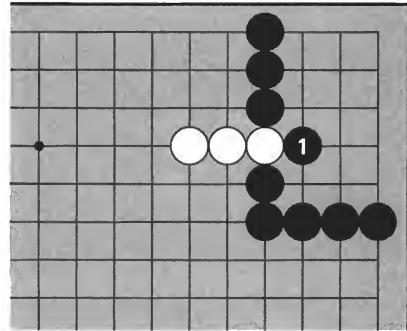
White punches through Black's wall with 1. This corner is not territory because Black's wall has been breached.



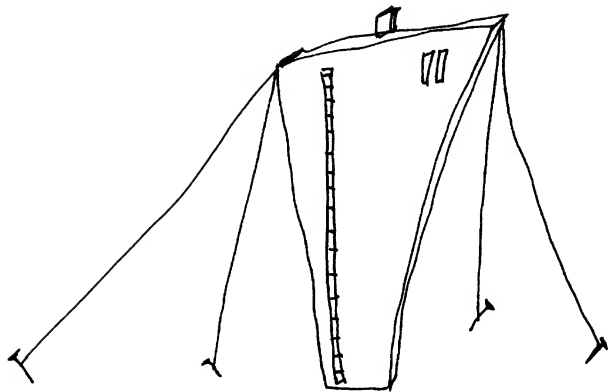
*Diagram 2*

### *Diagram 3:*

Black needs to protect the corner territory by blocking the gap with 1. White cannot mount a successful assault now, so this corner becomes Black's territory.

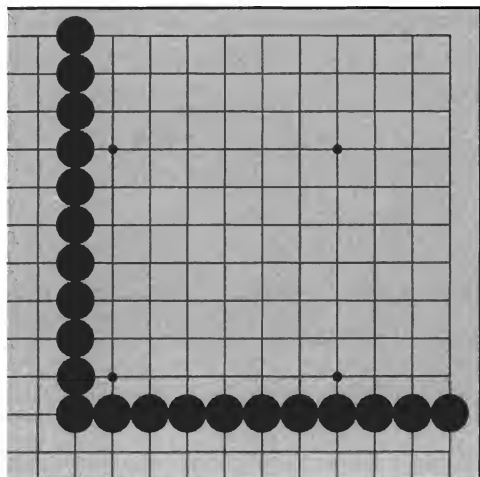


*Diagram 3*

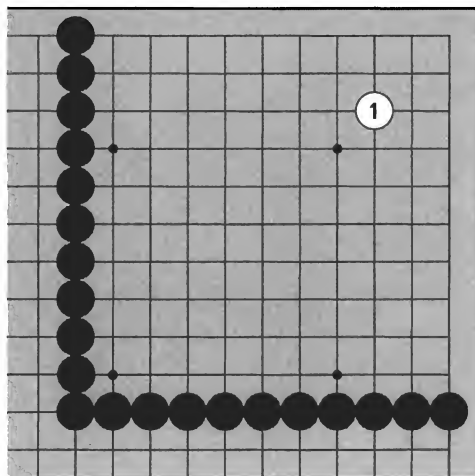
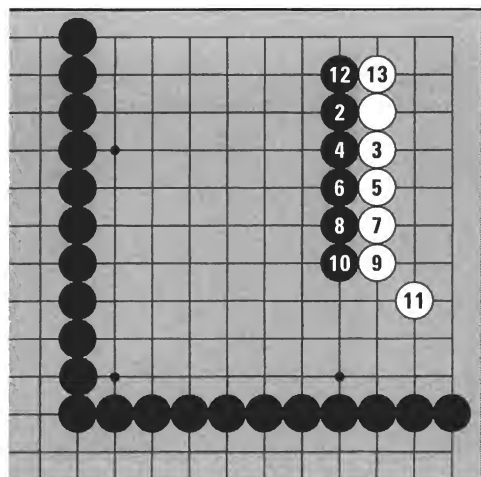


**Diagram 4:**

Black has surrounded a large territory comprising more than a fourth of the board. The walls have no weak points, but this territory is so big (100 points) that it has other problems.

**Diagram 4****Diagram 5:**

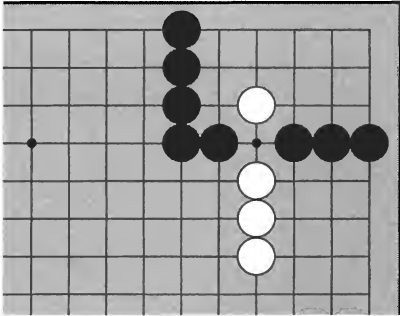
If White **invades** at 1, Black will be in an awkward position. Attacking White 1 is difficult because the black stones are so far away. If Black cannot capture White 1, a lot of Black's territory will be destroyed.

**Diagram 5****Diagram 6****Diagram 6:**

If Black attacks at 2, White can play 3. In the sequence shown, Black continues the attack, but is unsuccessful. In fact, White makes about ten points of territory in the corner that used to be Black's territory.

Stake a claim to territory that you can control, that is, where your opponent cannot live easily inside it.

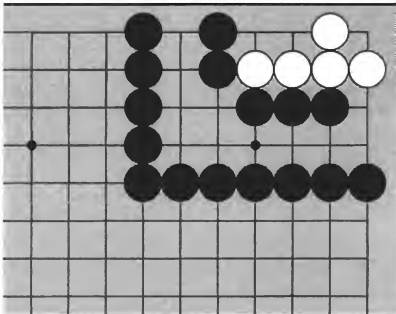
# TRY IT YOURSELF



**Problem 1**

## **Problem 1:**

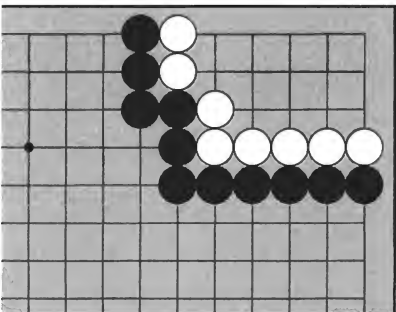
*Where can Black play to protect the corner territory?*



**Problem 2**

## **Problem 2:**

*This shape is the result of a white invasion. Black must kill the invading stones to keep the corner territory. How can Black do so?*



**Problem 3**

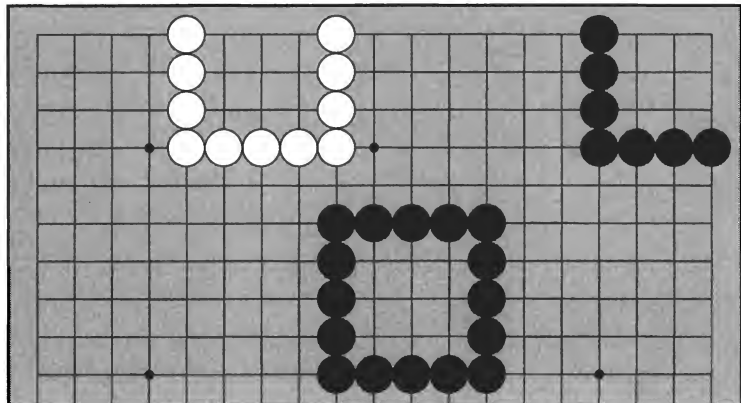
## **Problem 3:**

*White has surrounded the corner but it is not all territory yet. There is a weak point in White's wall. Where is it?*

# TRY IT YOURSELF

## Problem 4:

Here are three territories with nine points each. How many stones are needed for making the territory in the center? On the side? In the corner? In order of efficiency, which areas are best for making territory?

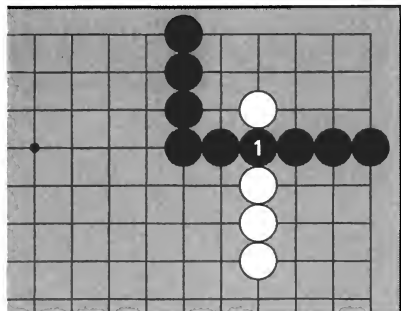


Problem 4

# ANSWERS

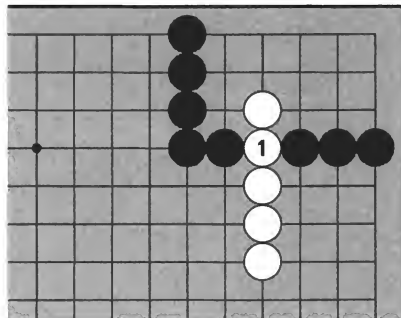
## Answer 1:

Black connects at 1, making a solid wall.



Answer 1a

If Black does not play 1, White can cut through at 1. The corner is no longer Black's territory.

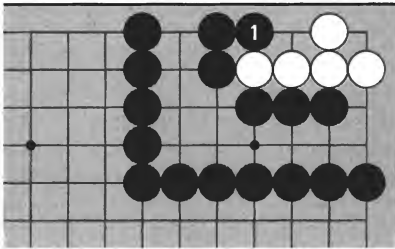


Answer 1b

# ANSWERS

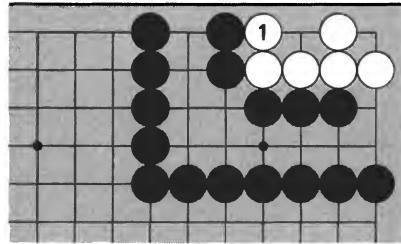
## Answer 2:

Black can play at 1. Now White cannot make two eyes (two separate points of territory). Since White can be captured, White is dead, and Black keeps the corner.



Answer 2a

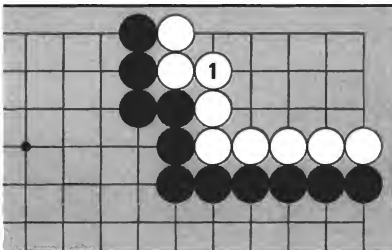
If Black does not play 1, White 1 makes two eyes. White cannot be captured, so White is alive. Black's territory has been considerably reduced by the invasion.



Answer 2b

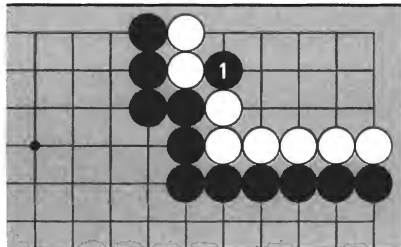
## Answer 3:

White needs to connect at 1 to make a perfect wall.



Answer 3a

If White does not play 1, Black 1 perforates the wall, and some of White's territory is lost.



Answer 3b

## Answer 4:

To make the same number of points, you need sixteen stones in the center, eleven on the side, and seven in the corner. The most efficient place to make territory is the corner because there are two "walls" already. On the side, one "wall" is constructed for you. In the center, territory must be protected on all four sides.

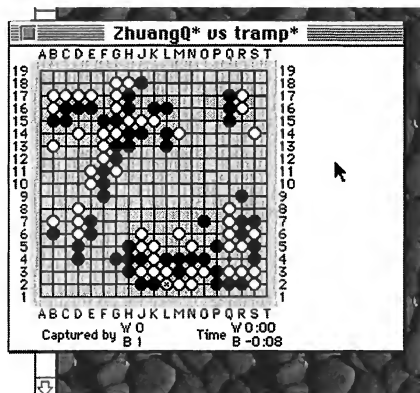


## GO IN CYBERSPACE

The Internet Go Server, or IGS for short, is an electronic Go club that lives in the cyberspace of the global Internet. The IGS allows players from all over the world to meet, chat, and play Go using their computers and phone lines. The IGS has many members, and often in excess of one hundred players at a time are on-line. Players range in strength from total beginner to professional 9-dan. Besides playing, you can watch games in progress. Spectators can comment and ask questions among themselves with the “kibitz” command. This is a useful way to learn more about Go, as in a club setting, this would disturb the players.

While it is a tremendous resource for Go players, the servers can be a bit difficult to learn to use comfortably. You can get to the IGS by visiting our Samarkand/Good Move Press site at [www.samarkand.net](http://www.samarkand.net) and clicking ‘Go Links’. A considerable amount of on-line help is available on the IGS itself: just log in as “guest”, and type “help”. There are other places on the Internet where you can play Go as well: try the No Name Go Server (NNGS) or Microsoft’s Internet Gaming Zone. You can find these and a number of other Go sites, including the American Go Association (AGA) site, at Samarkand’s Go Links.

You can also check out the netnews group [rec.games.go](mailto:rec.games.go), read about what people are talking about, and post your own questions and comments.



*A game in progress on the IGS, as seen on the desktop of my computer.*

## GO FOR KIDS

Kids as young as 3 or 4 are capable of learning about Go. Just drawing pictures with the stones on the board, and watching adults or older kids playing, is enough to spark their natural curiosity and imagination. They should be supervised at all times, though, because the stones look edible. Once the appeal of eating the stones has passed, kids seem to learn Go at an extraordinary rate. They often rapidly outpace adults and can reach professional levels as early as age eleven. Not only do kids learn Go with great ease, but many believe that learning it may increase a child's IQ or learning potential.

At first, kids (or adults, for that matter) may not understand all the information presented. Don't worry about it. The spirit of Go is in creative, not "correct," play. Do keep the focus on fun and sportsmanship. Generally speaking, kids are better at tactics than strategy. Try to let them excel at their natural strengths. Although it is difficult at times, the less said the better: let them see the consequences of their moves and decide for themselves if the moves are good or bad. Many people try to guide a child through a game or play illogically in an effort to let a child win, not realizing the uncertainty and confusion this may cause. Children are natural-born Go players. Let them do their own thing, don't do too much, and prepare to be amazed.

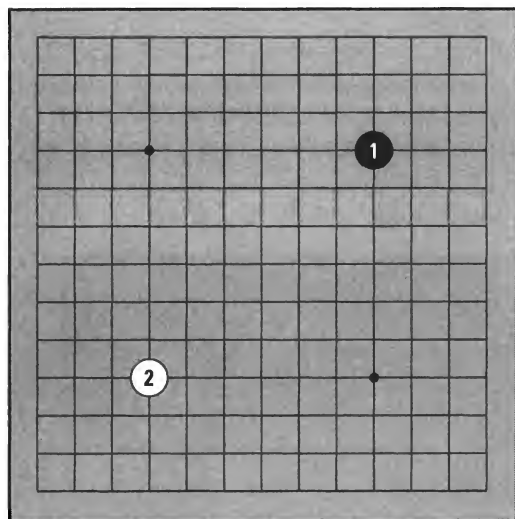
Kids are welcome at tournaments and there are also special tournaments just for them. The Michael Redmond Cup, the U.S. Go Congress, and the World Youth Championship are some of the opportunities to meet other children from around the world and visit interesting places. Support is also available to form a Go club in your area or provide equipment for your school. Contact the AGA or other Go organization for more information (addresses are at the end of this book).



Photo by Hankook Kimon

# A REAL GAME

*The following is a real game on a 13 x 13 board. Watch how stones are captured, how territory is made, and how the winner is decided.*



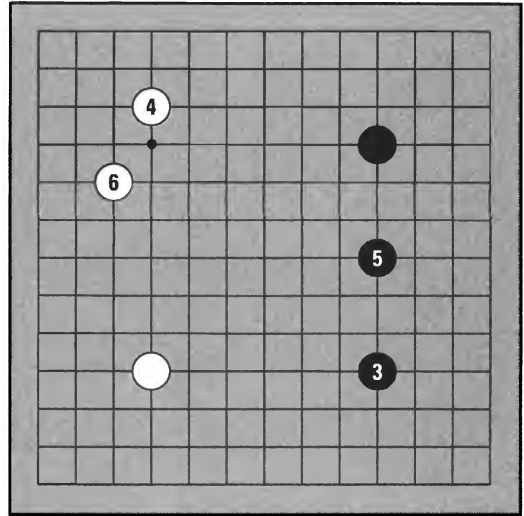
***Game Record 1 (1-2)***

## ***Game Record 1 (1-2):***

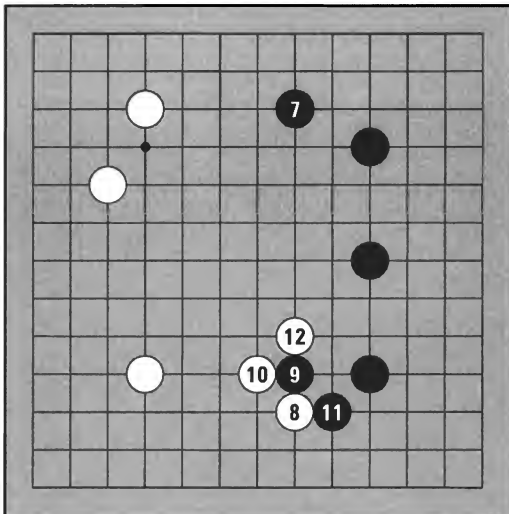
Black plays first. Black 1 is in the upper right corner. White 2 occupies the lower left corner. Usually one takes up a position in the corners on the third or fourth line from the edge first, because it strikes a good balance between offense and defense.

**Game Record 2 (3-6):**

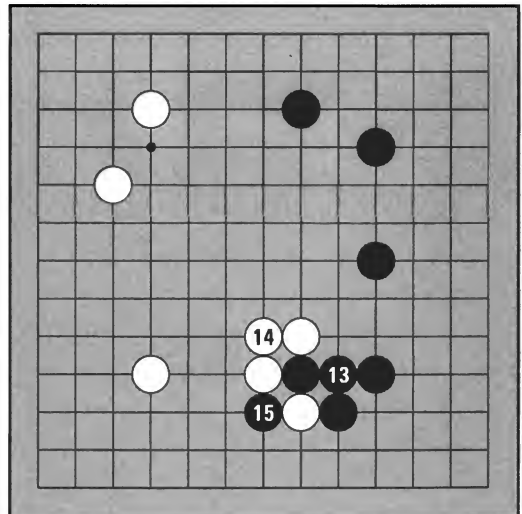
Black plays in the lower right corner with 3, and White takes the last remaining corner with 4. Next Black makes a claim to the side with 5. In the beginning, you can make a good position by playing your stones somewhat sparsely in important areas. Next White begins surrounding the upper left corner with 6.

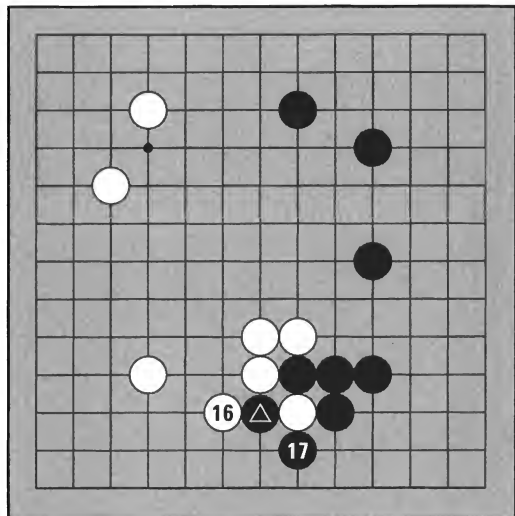
**Game Record 2 (3-6)****Game Record 3 (7-12):**

Black makes inroads into the upper side and extends the territorial framework of the upper right corner with 7. White 8 approaches the lower right corner. Open hostilities start when Black attaches on top with 9 and White tries to circle around from underneath with 10. Black blocks at 11, and White 12 puts a stone in atari. Where will Black play next?

**Game Record 3 (7-12)****Game Record 4 (13-15):**


Black connects at 13. If Black does not connect, White will capture at 13. White connects a weak point on top at 14 and Black 15 cuts at the bottom.

**Game Record 4 (13-15)**



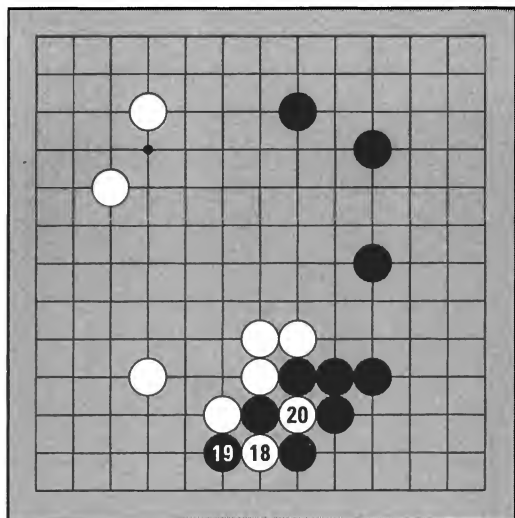
*Game Record 5 (16-17)*

**Game Record 5 (16-17):**

White 16 puts Black  in atari, but Black can capture first at 17. Black puts the white prisoner in his bowl lid.



**Game Record 6 (18-20):**

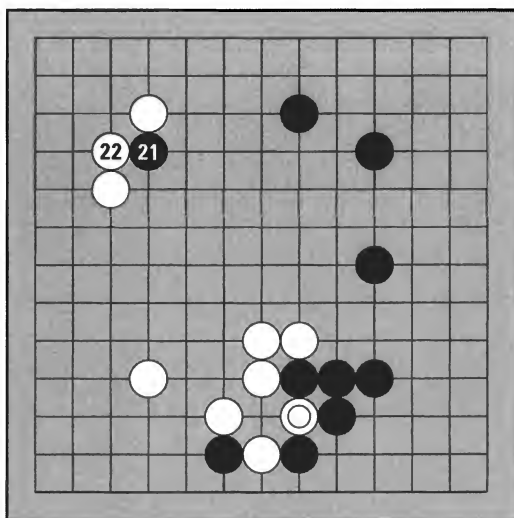
White 18 puts a black stone in atari. Black doesn't connect, but tries to cut off White 18 instead. White captures with 20.



*Game Record 6 (18-20)*

**Game Record 7 (21-22):**

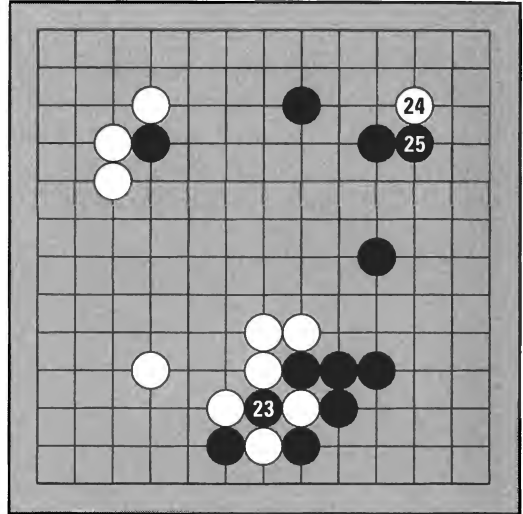
White  is in atari, but it has just captured in ko. Black may not capture it immediately, so he plays at 21. White responds at 22, so now Black may return to capture White .



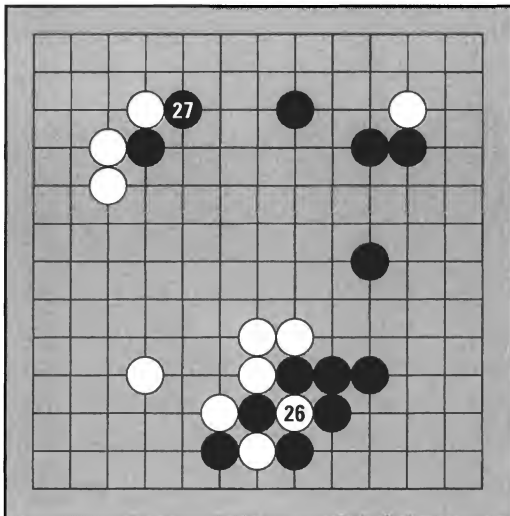
*Game Record 7 (21-22)*

**Game Record 8 (23-25):**

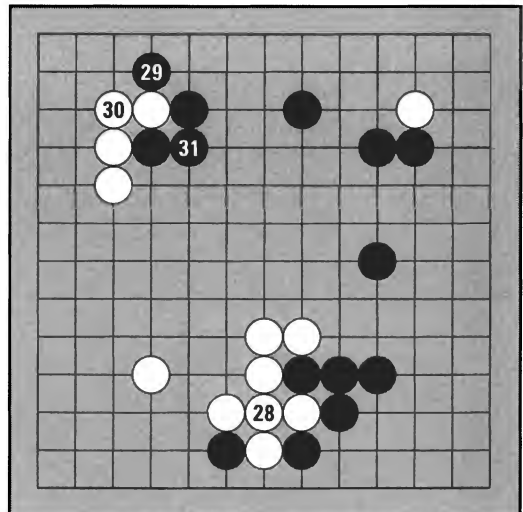
Black **takes the ko** with 23. Now White may not capture Black 23 immediately, so she plays somewhere else with 24. Black responds at 25.

**Game Record 8 (23-25)****Game Record 9 (26-27):**

Since White has played somewhere else, White may return to capture the black stone in ko with 26. Black also must play somewhere else before capturing, so he blocks at the top at 27. If White responds, Black can take the ko again.

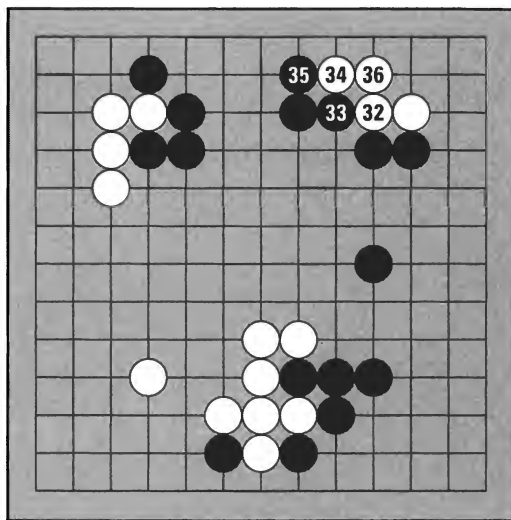
**Game Record 9 (26-27)****Game Record 10 (28-31):**

White does not respond, but **connects the ko** at 28. Now the ko fight on the bottom is finished. White has **won the ko**, but Black makes a strong position at the top with 29 and 31.

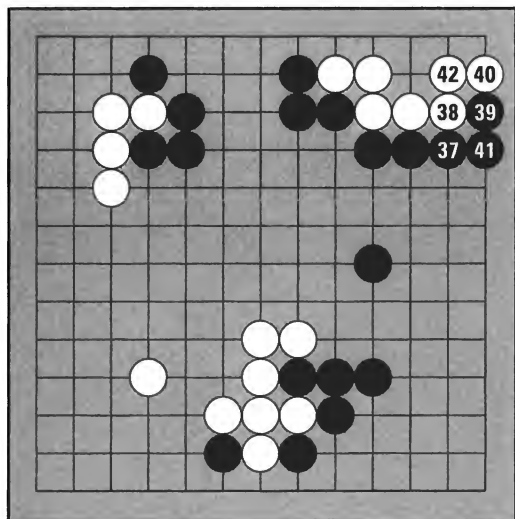
**Game Record 10 (28-31)**

**Game Record 11 (32-36):**

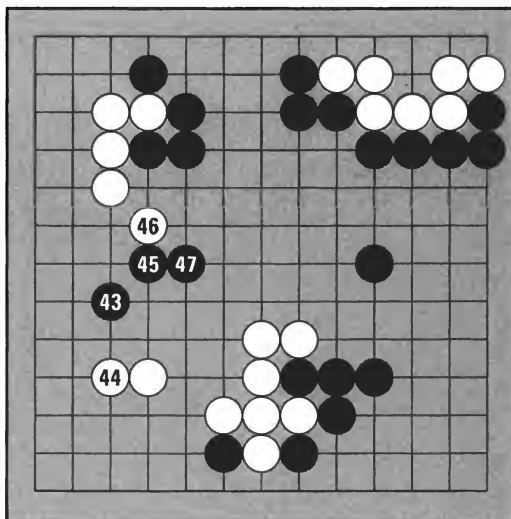
White turns her attention to the upper right corner with 32. White means to live here and so must make a minimum of two eyes. When Black blocks at 33, White extends potential eye space with 34 and connects with 36.

**Game Record 11 (32-36)****Game Record 12 (37-42):**

Black wants to kill, so he tries coming straight down at 37. To be successful, he must prevent White from making two eyes. White defends at 38. Black attacks at 39, but White lives by blocking and connecting with 40 and 42. Try to confirm for yourself that now White can make two eyes no matter what Black does.

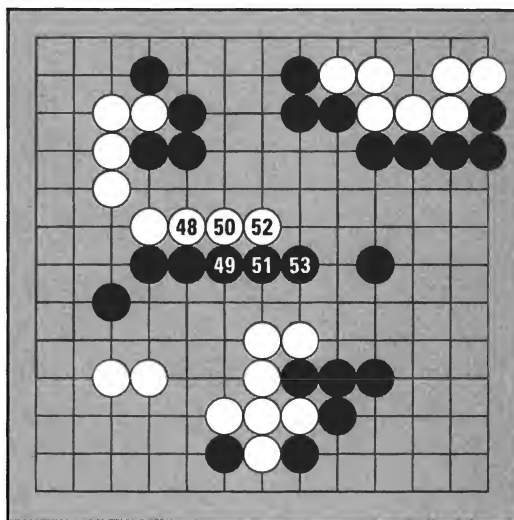
**Game Record 12 (37-42)****Game Record 13 (43-47):**

Black jumps into the white area on the left side with 43. White 44 defends the corner territory. Black runs with a diagonal at 45. White tries to enclose these stones with 46 but Black comes out at 47.

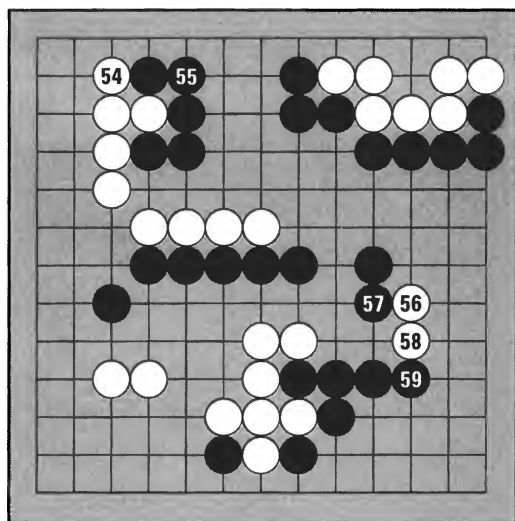
**Game Record 13 (43-47)**

**Game Record 14 (48-53):**

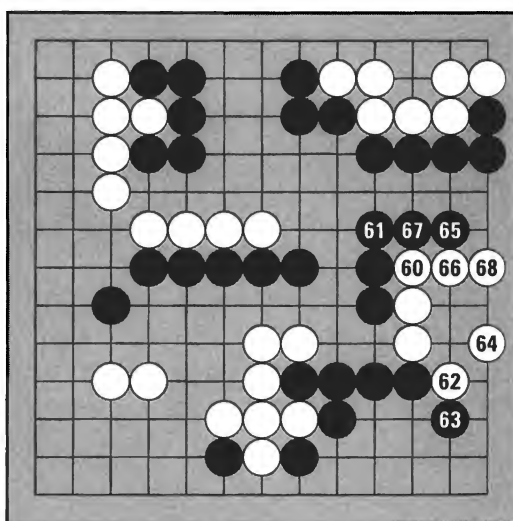
White follows with 48 so Black runs again at 49. If surrounded, Black cannot make two eyes on the inside, so these stones must run out and link up to the secure stones on the right side in the sequence to 53.

**Game Record 14 (48-53)****Game Record 15 (54-59):**

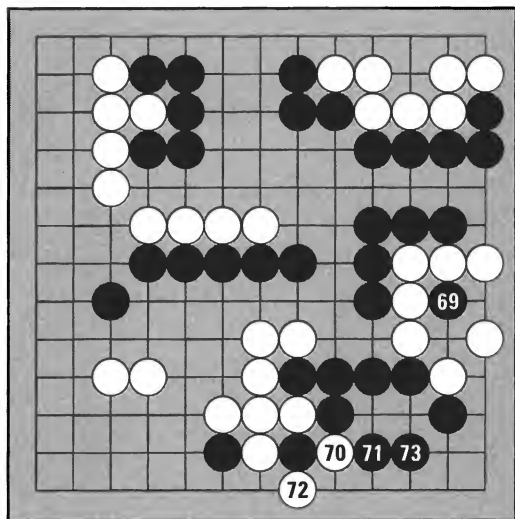
White blocks at 54, protecting the territory in the upper left corner. Black connects at 55. White wants to destroy the territory on the right side, so she invades at 56. Black attacks with 57 and 59, intending to kill.

**Game Record 15 (54-59)****Game Record 16 (60-68):**

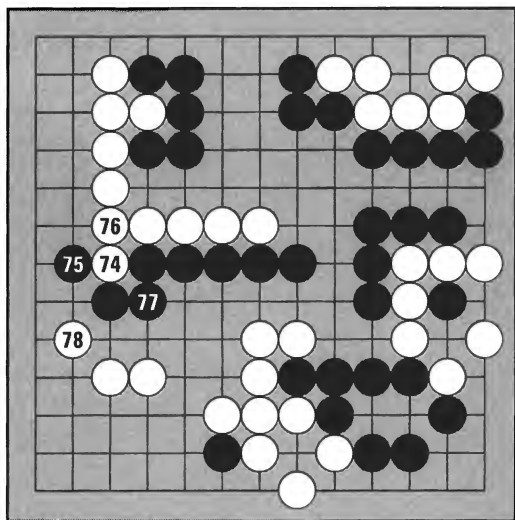
White's invading stones are surrounded, so they need at least two separate points of territory to avoid capture. In Gospeak we say White cannot run, so she must make two eyes to live inside.

**Game Record 16 (60-68)**



*Game Record 17 (69-73)***Game Record 18 (74-78):**

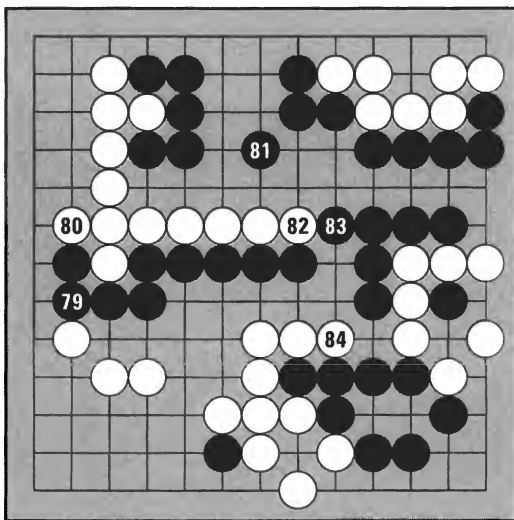
White was killed on the right side, so now White threatens Black's indirect connection at 74. Black plays coolly at 75 and 77. If Black did not connect at 77, White could cut off two stones by playing there.

*Game Record 18 (74-78)***Game Record 19 (69-73):**

White could live by playing at 69, but unfortunately for these stones, it is Black's turn. Black plays at 69, preventing White from making two eyes, so the invading stones die. White switches to 70, capturing one stone. Black protects strongly at 73.

**Game Record 19 (79-84):**

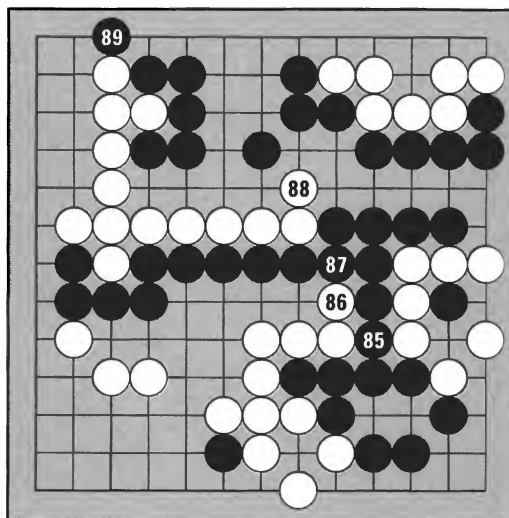
Black 79 makes another important connection. White protects the corner territory by blocking at 80. Black 81 protects the territory on top. What is the meaning of White 84?

*Game Record 19 (79-84)*

**Game Record 20 (85-89):**

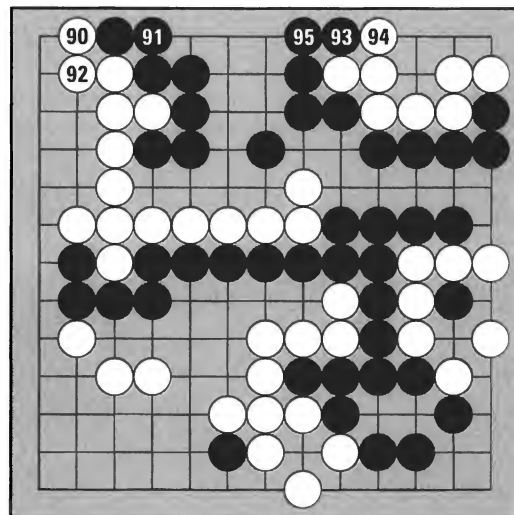
Black must play at 85, otherwise the seven dead stones on the right can connect to the secure stones on the left. When White plays at 86, Black connects at 87. This is also very important because White is threatening to cut off the big group on the left side.

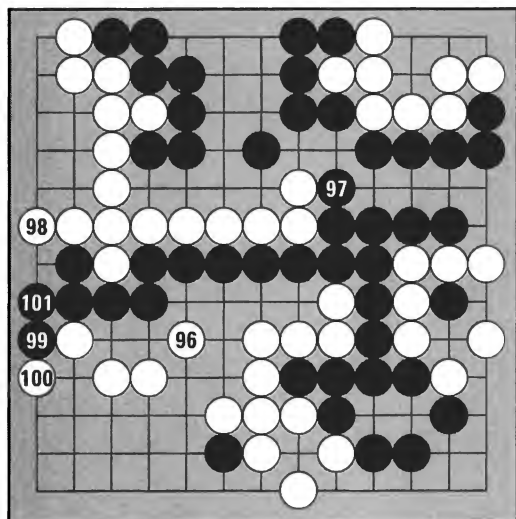
Now the major fighting is finished. The **endgame** starts with 88 and 89.

**Game Record 20 (85-89)****Game Record 21 (90-95):**

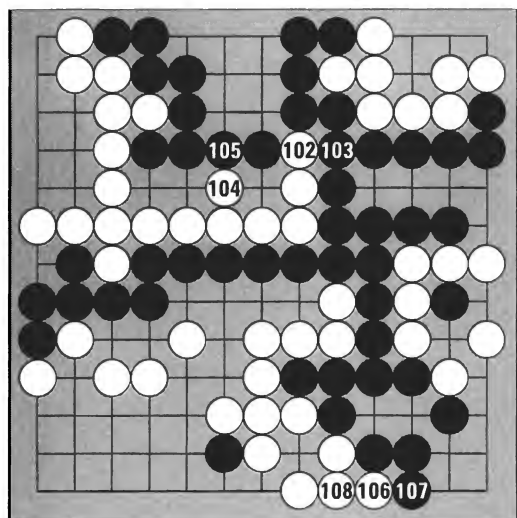
White 90 puts a stone in atari, so Black connects at 91. Next White connects at 92. Black plays the **hane** (a Japanese term meaning a kind of “quick turn”) with 93. The “hane-block-connect” on the first line is one of the more common techniques of the endgame.

White blocks at 94 and Black connects at 95. The territories are beginning to take their final forms.

**Game Record 21 (90-95)**

*Game Record 22 (96-101)***Game Record 23 (102-108):**

White prevents the formation of one point of territory with 102 and Black connects all his stones with 103. He puts the finishing touch on the top territory with 105 in response to 104. White plays the hane at 106, Black blocks, and White connects.

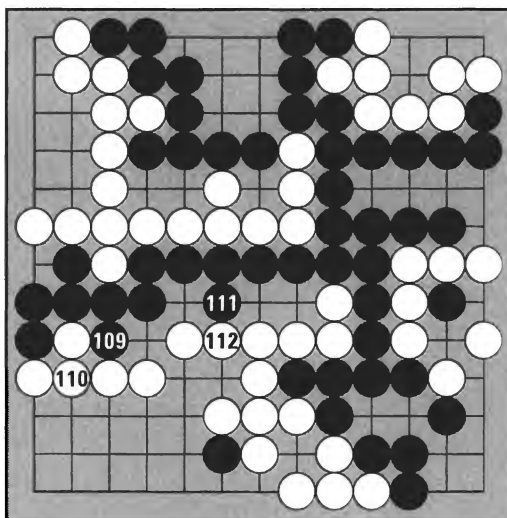
*Game Record 23 (102-108)***Game Record 22 (96-101):**

White 96 expands the territory in the lower left a little more. Black 97 seals off his right side. White 98 completes the upper left corner's wall. Next Black plays the hane at 99 in the lower left, White blocks, and Black connects.

**Game Record 24 (109-112):**

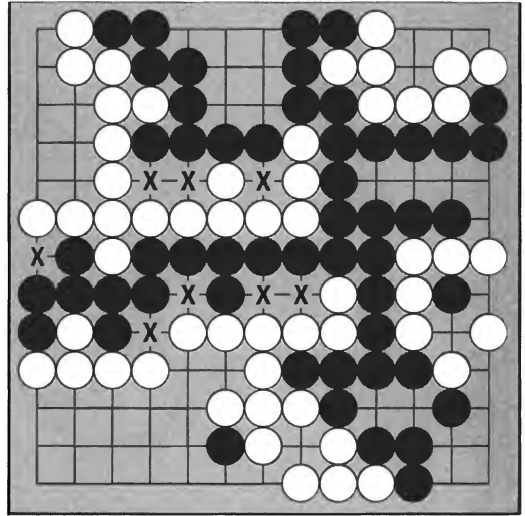
Black plays atari at 109 and White connects at 110. If White does not connect, Black can capture one stone and break through her wall. Black plays 111 and White blocks at 112.

Now there are no places on the board where territory can be reduced or enlarged. This means the game is over.

*Game Record 24 (109-112)*

**Diagram 1:**

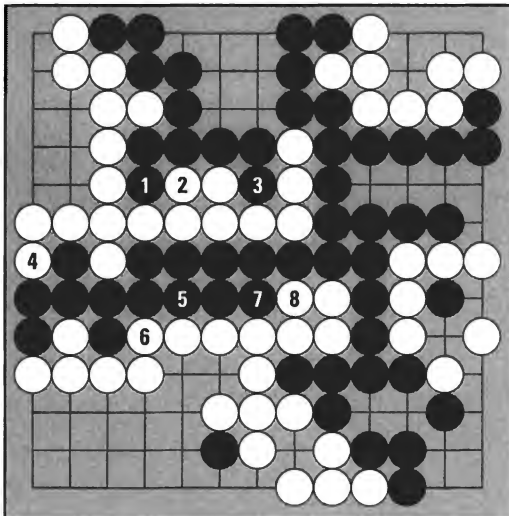
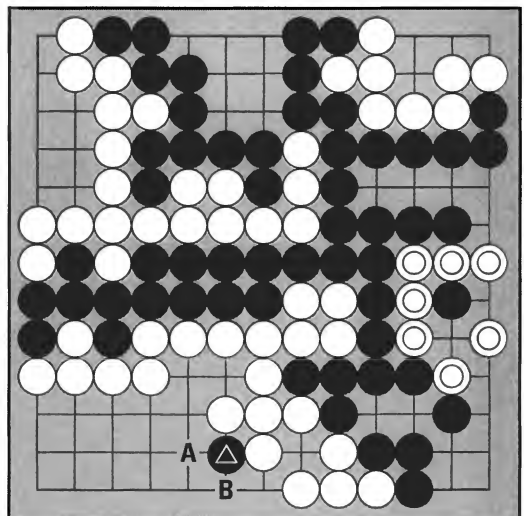
At this stage, there are some things we should do in order to count and see who won more easily. First, we have to deal with the places marked X. Nobody can make territory in these areas. These are called **neutral points** (*dame* in Japanese, and *gongbae* in Korean).

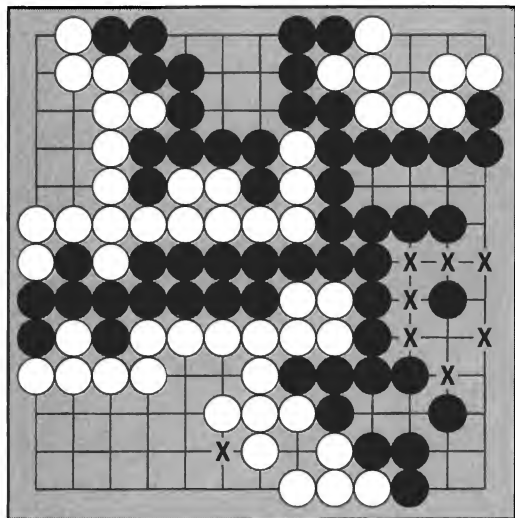
**Diagram 1****Diagram 3:**

The dead stones are Black  $\triangle$  and White  $\odot$ . Dead stones are taken out at the end of the game. It is not necessary to play extra moves in order to capture them. For example, White need not play A and B to remove Black  $\triangle$  at this stage.

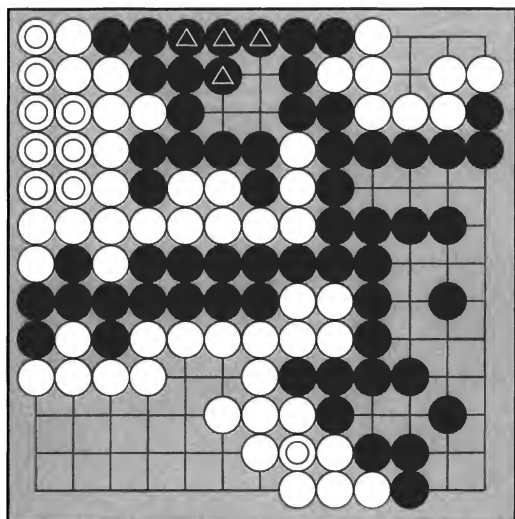
**Diagram 2:**

Black and White fill in the neutral points. This clarifies what is territory and what is not. After all the neutral points have been filled, dead stones are removed.

**Diagram 2****Diagram 3**

*Diagram 4***Diagram 4:**

This is the result after the dead stones at X have been removed. The dead stones are prisoners and join their fellow prisoners in the bowl lids. White has four prisoners, and Black has nine.

*Diagram 5***Diagram 5:**

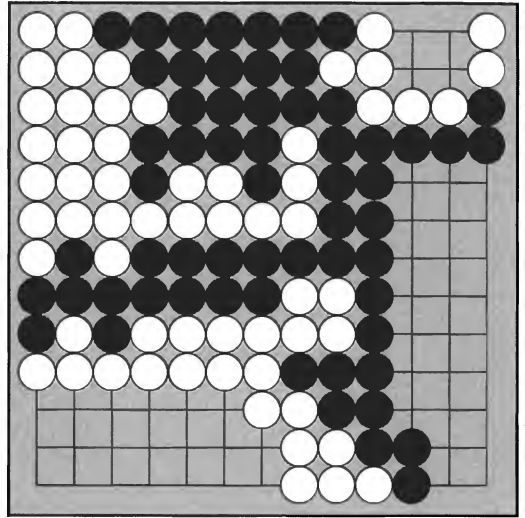
Black fills in white territory with white prisoners; White fills in black territory with black prisoners. Each dead or captured stone reduces your opponent's territory by one point. After the territories are filled in with prisoners, the territories can be arranged for easy counting.

**Diagram 6:**

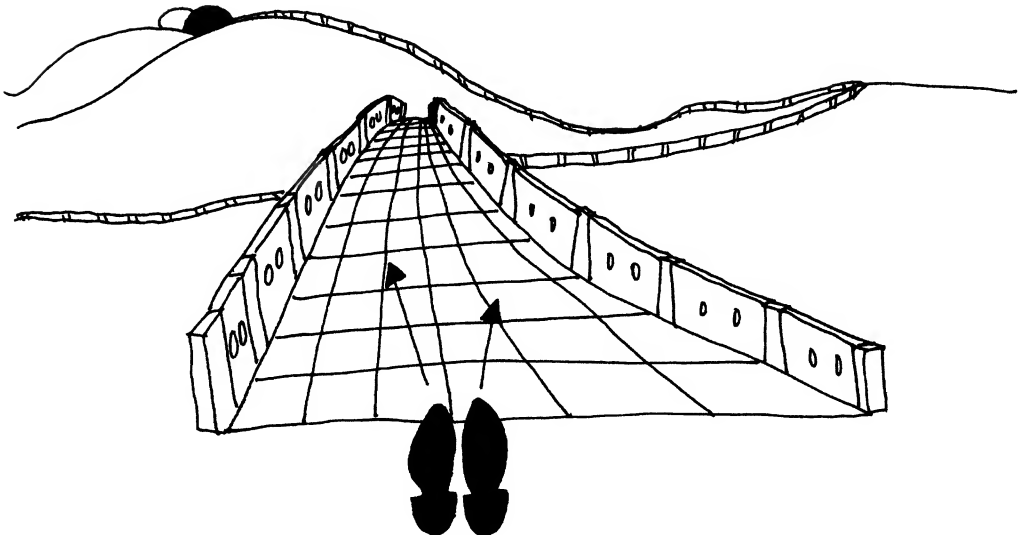
Moving stones around does not change the territory count as long as you do not touch the borders. Arrange the territories to make rectangular shapes for easy counting.

White has  $20 + 4 = 24$  points. Black has 25 points. Black has won by one point.

You are now ready to play Go.



**Diagram 6**



# GO STARS



## *Cho Hoon-hyun*

B. 3/10/53, Korea. 1 dan 1962, 9 dan 1982. Studied in Japan as a disciple of Segoe Kensaku 9 dan. Returned to Korea for obligatory military service in his teens, and has remained ever since. Held every Korean title for many years, and several world championships.

Cho Hoon-hyun's other claim to Go greatness lies in his teaching of the boy that has come by 1997 to be considered perhaps the strongest player in the world: Lee Chang-ho 9 dan.



## *Suh Bong-soo*

B. 2/1/53, Korea. 1 dan 1970, 9 dan 1986. Won the prized title of *Myungin* at 18 and held it for five straight years. A home-grown "solution to Cho Hoon-hyun," Suh was Cho's only rival in the 80s and continues to be a major title contender. His victory in the Ing Cup made Suh, who was known as the "Korean number-two player," a World Champion.

### ***Yu Chang-hyuk***

B. 4/25/66, Seoul. 1 dan 1984, 9 dan 1996. Fujitsu World Champion 1993. The subject of a two-volume biography at the age of 28. A true Horatio Alger story, Yu was the fifth of seven children of a poor family, who went on to fame and fortune by studying Go books at home. Yu emerged from the ranks of the top amateurs as the first and leading player of the Go generation dubbed by the media the “new wave.”



### ***Lee Chang-ho***

B. 7/29/75, Korea. 1 dan 1986, 9 dan 1996. A disciple of Cho Hoon-hyun. Guinness world record holder for youngest person to win a Go title (at age 14). In a sport where most players peak in their 30s, Lee at 19 held more titles (13) than any other player. Lee's youth and amazing skill has raised interest in Go to new heights. In a survey in Korea, he was ranked the eighth-most-recognized person in the world.





# GO STARS

## JAPANESE STARS

**Cho Chi-hoon** — B. 6/20/56, Seoul. Nephew of Cho Nam-chul 9 dan, who founded the Hankook Kiwon (Korean Go Association). Entered Kitani School in Japan in 1962. 1 dan 1968, 9 dan 1981. 1983 held top four titles (*Kisei*, *Meijin*, *Honinbo*, *Judan*) at the same time. Only player to have won all seven Japanese top titles. Called Cho Chikun in Japanese.

**Kato Masao** — B. 5/15/47, Fukuoka, Japan. Kitani disciple. 1 dan 1964, 9 dan 1978. Won fourteen titles from 1976-1980. Known as the “Killer” for his penchant for spectacular captures.

**Kobayashi Koichi** — B. 9/10/52, Asahikawa, Japan. Kitani disciple. 1 dan 1967, 9 dan 1979. Considered the Japanese top player. Married to Kitani’s daughter, Reiko 6 dan, who passed away in 1996. *Kisei* seven, *Meijin* four consecutive years. First player to top \$1 million annually in playing fees.

**Otake Hideo** — B. 5/12/42, Kitakyushu, Japan. Kitani disciple. 1 dan 1956, 9 dan 1970. *Meijin* 1975 and three more times. *Gosei* 1980-85. In all, 39 titles.

**Rin Kaiho** — B. 5/8/42, Shanghai. A disciple of Wu Ch’ing-yuan (called Go Seigen in Japanese), who is considered by many to be the greatest player of this century. 1 dan 1955, 9 dan 1967. *Meijin* 1965 and seven times thereafter. *Honinbo* five times.

**Takemiya Masaki** — B. 1/1/51, Tokyo. Kitani disciple. 1 dan 1965, 9 dan 1977. Invented the “Outer Space Style,” a large-scale center strategy. *Honinbo* six times.

## CHINESE STARS

**Nie Wei-ping** — B. 8/17/52, Hubei Province, China. Chinese Champion 1975 and five more times. A national hero, called the “Iron Goalkeeper” for preventing Japanese victories in the Japan-China Super-Go matches.

**Rui Nai-wei** — B. 12/28/63, Shanghai, currently living in Tokyo. First woman 9 dan. Bohae Cup World Women’s Champion 1995 and 1996. Semi-finalist in Ing Cup 1992. Married to Jiang Zhu-jiu 9 dan.

# GO IN THE U.S.A.

In 1907, a famous chess master named Edward Lasker discovered Go in Berlin, watching Japanese students play in their leisure hours. At first skeptical that it had the depth of chess, he quickly became entranced. In one of his books, he wrote: “My friends to whom I showed the game...soon preferred it, like myself, to all other games they knew.” These early Go players founded the New York Go Club in 1927, and in 1935, the American Go Association (AGA), which today has grown to over 100 member clubs. A list of Go clubs in North America is included at the back of this book.

There are dozens of local and regional tournaments, culminating in the yearly U.S. Go Congress, where the U.S. Open and the North American Ing Cup, as well as numerous other events, take place. These tournaments are organized by the AGA, which has approximately 1,500 active members. Write for information or to become a member.

The U.S. lags behind Asia and Europe in Go population, but a number of players have achieved very respectable results in international amateur competition, and all three professional players born outside of Asia are American. While the AGA has no professional system, a dozen or so professionals from Asian Go associations are active in the U.S., including:

## *Jiang Zhu-jiu*

B. 2/17/62, Shandong, China. 9 dan 1987 from the China Weiqi Association. Resides in San Francisco area and in Japan. Married to Rui Nai-wei 9 dan.

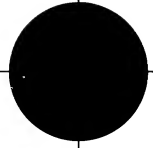
## *Michael Redmond*

B. 5/25/63, California. Disciple of Oeda Yusuke 9 dan. 1 dan 1981, 7 dan 1990 from the Nihon Ki-in (Japan Go Association). Highest ranked American player.

## *James Kerwin*

B. 11/1/46, Minnesota. Disciple of Iwamoto Kaoru 9 dan. 1 dan 1978 from the Nihon Ki-in. Teaches the annual Hollyhock Go retreat and Winter Go Workshop.





PART II:

# BASIC TECHNIQUES

*In Part I, you learned the fundamentals. As you play, you may find that although your objectives may be simple, they are not always easy to accomplish.*

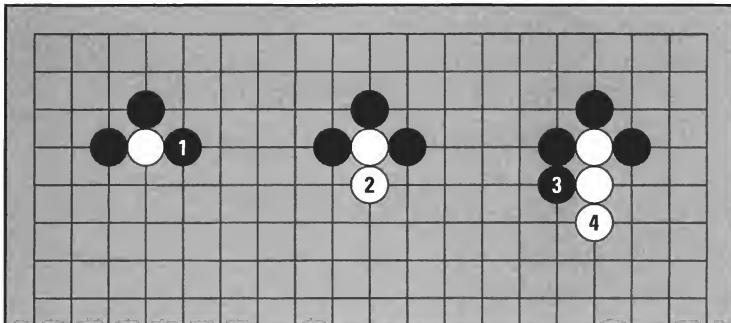
*In Part II, you will learn basic techniques, and how to use them in your own games.*

# CAPTURING TECHNIQUES

*Capturing is profitable — it not only increases your territory, it reduces your opponent's territory. Everybody wants to capture, but it is not easy. When you try to capture, your opponent can run.*

## ***Diagram 1:***

On the left, Black 1 puts one white stone in atari. If Black plays next, he can capture. But since it is White's turn, she can come out at 2. White now has three liberties, so capturing becomes more difficult. Even if Black blocks a liberty at 3, White can stay one step ahead with 4. It looks like capturing is hopeless now.



Is it only by luck or miscalculation that stones are captured? Not really. There are stones you can capture if you learn some basic techniques.

***Diagram 1***

## 1. DOUBLE ATARI

You can capture stones by making a double threat.

### Diagram 2:

Where can Black play to put both white stones in atari at once?

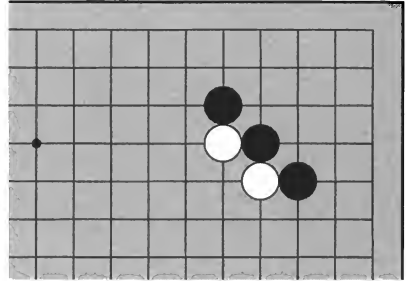


Diagram 2

### Diagram 3:

When Black plays at 1, both white stones are in atari at the same time. They are said to be in **double atari**. When you play double atari, you can capture one side or the other.

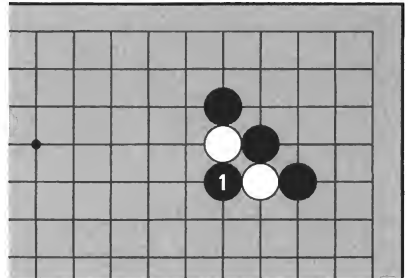


Diagram 3

### Diagram 4:

If White runs at 2, Black 3 captures the other stone. If White runs at 3, Black can capture at 2.

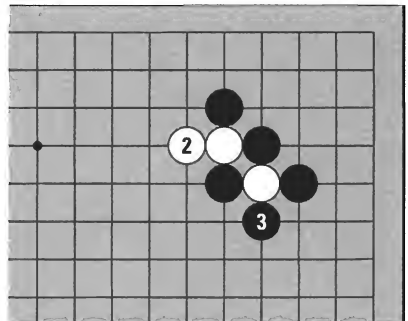


Diagram 4

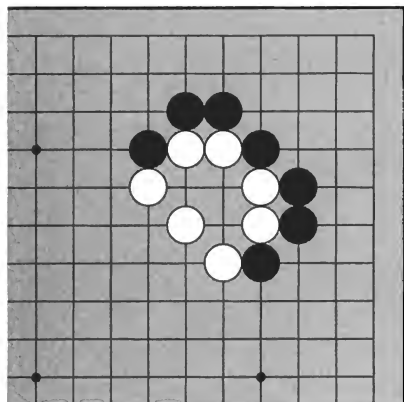
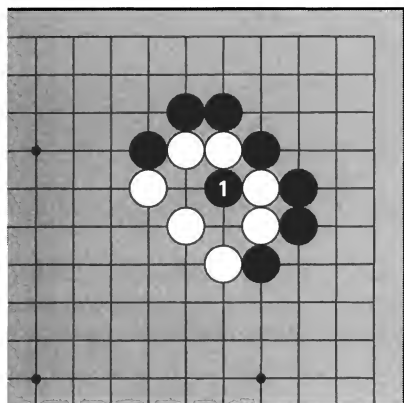


Diagram 5

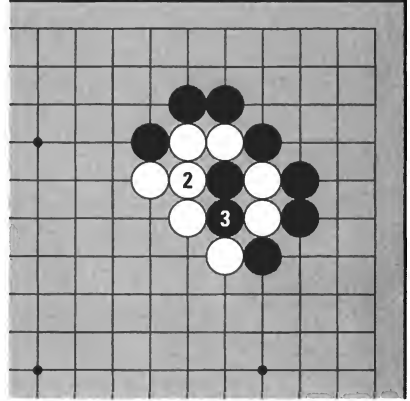
**Diagram 5:**

This shape has a vital point for double atari. Try to find it.

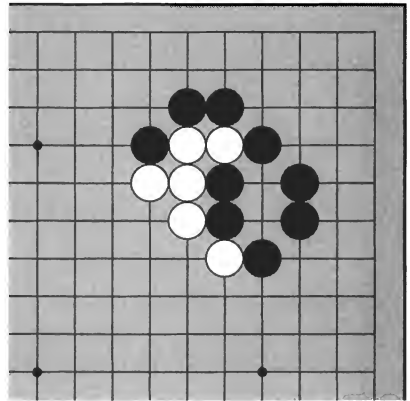
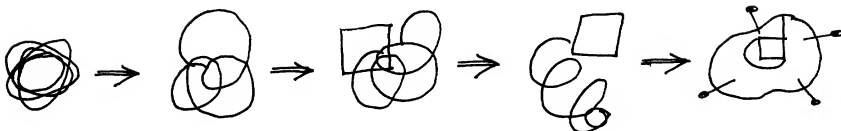


**Diagram 8:**

But if White connects the two stones on the top, Black can capture the two on the side.

**Diagram 8****Diagram 9:**

This is the result of *Diagram 8*. The shape that results from capturing two stones looks like an aerial view of a turtle, so it is called the **turtle back**.

**Diagram 9**

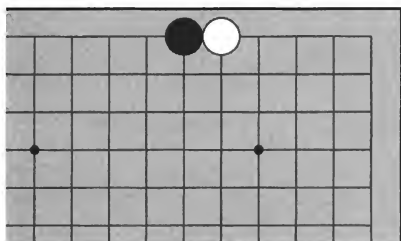


## 2. *PUSHING TOWARDS THE EDGE*

Another way to capture stones is by pushing them towards the edge.

### *Diagram 10:*

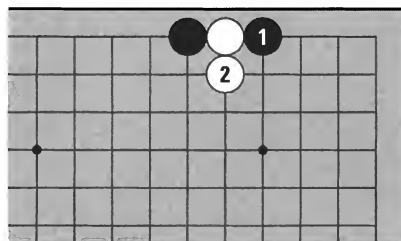
There is one black stone and one white stone on the first line. Where can Black play to capture?



*Diagram 10*

### *Diagram 11:*

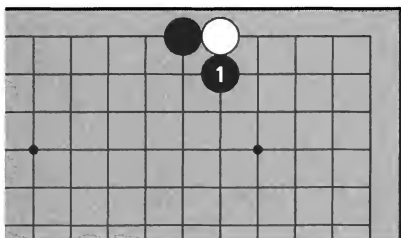
Black 1 is not good because White can run into the center with 2. Black can't capture this way.



*Diagram 11*

### *Diagram 12:*

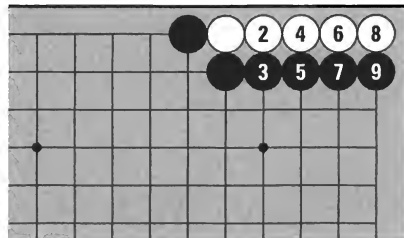
Pushing White towards the edge with Black 1 is correct.



*Diagram 12*

### *Diagram 13:*

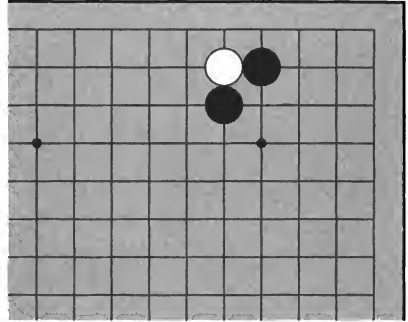
If White tries to run at 2, Black can play atari at 3. In the sequence from 4 to 8, White continues to run and Black follows, threatening to capture with each move. Finally White is captured in the corner. A stone on the first line is captured easily because it is running down a dead-end alley.



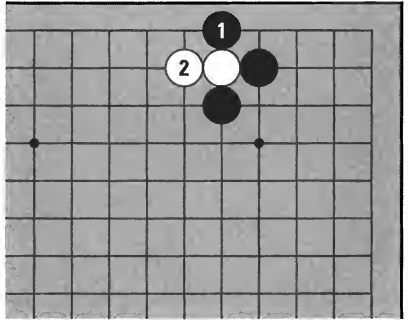
*Diagram 13*

**Diagram 14:**

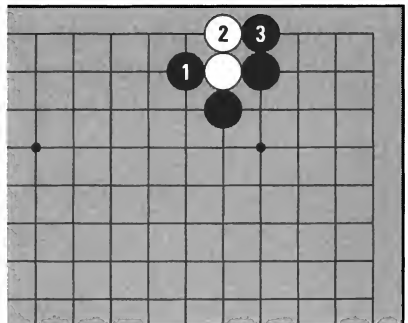
Now the white stone is on the second line. How can Black capture it?

**Diagram 14****Diagram 15:**

If Black tries to capture with 1, White can run at 2. Black has made a mistake by pushing in the wrong direction.

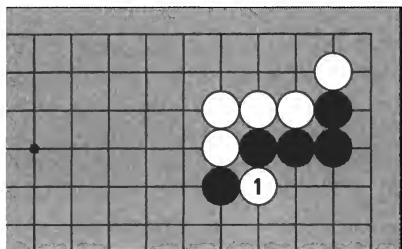
**Diagram 15****Diagram 16:**

Pushing White towards the edge is correct. Even if White plays 2, White is trapped. Black can play atari with 3.

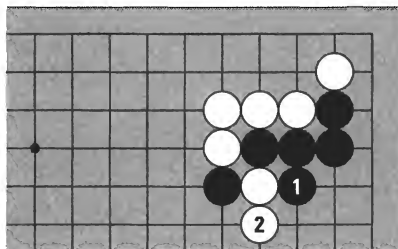
**Diagram 16**

**Diagram 17:**

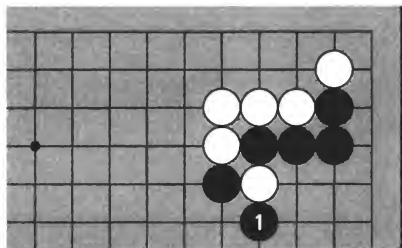
How can Black capture White 1?

**Diagram 17****Diagram 18:**

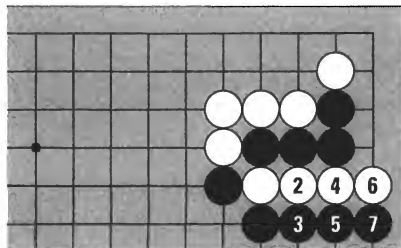
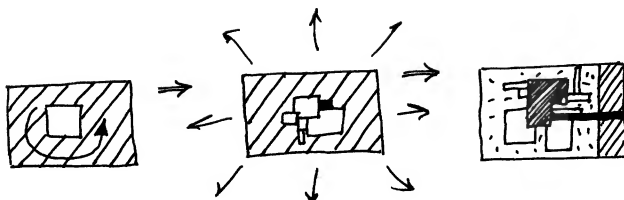
Black 1 is a mistake. White runs into the center with 2.

**Diagram 18****Diagram 19:**

Black should push White towards the edge with 1. Now White has problems.

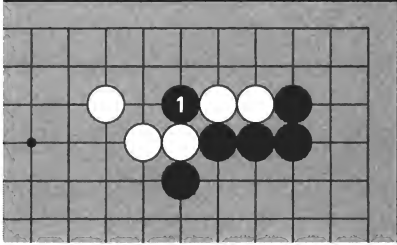
**Diagram 19****Diagram 20:**

Even if White runs at 2, 4, and 6, Black finally traps these stones on the first line. Often you may capture stones by pushing them to the edge, where they can be trapped.

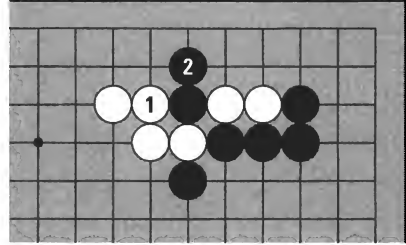
**Diagram 20**

**Diagram 21:**

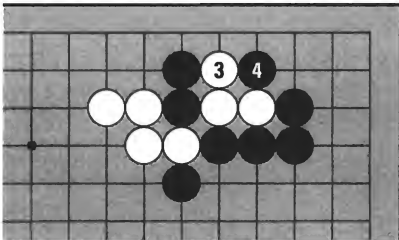
Black 1 cuts off two stones. How should White play here?

**Diagram 21****Diagram 22:**

Playing White 1 is a mistake this time, because Black can come down at 2.

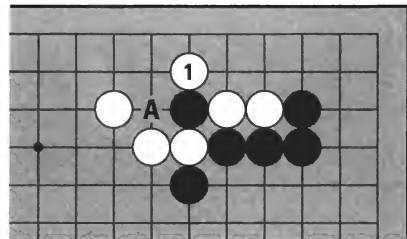
**Diagram 22****Diagram 23:**

If White tries to capture with 3, Black can capture first. Before trying to capture stones, you should consider your opponent's response. This is called **reading**.

**Diagram 23****Diagram 24:**

Surrounding Black with White 1 is correct. Even if Black plays at A, he is still in atari.

In this case, pushing towards the edge is not a good idea, but usually it is the correct way.

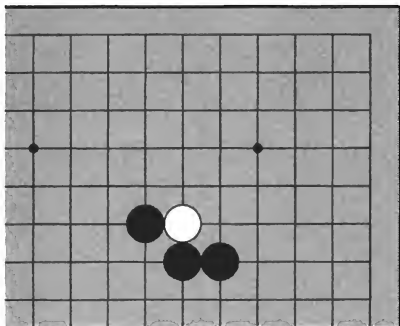
**Diagram 24**

### 3. THE LADDER

The ladder is a most interesting capturing technique.

**Diagram 25:**

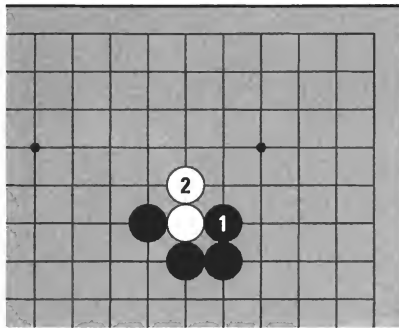
Here we have one white stone menaced by three black stones. Black can capture.



**Diagram 25**


**Diagram 26:**

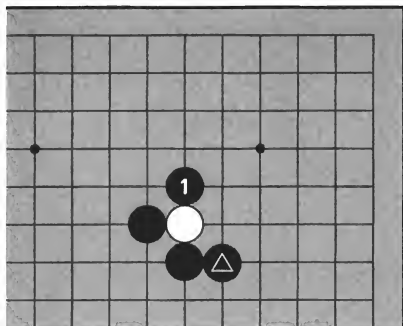
Black 1 doesn't work because White can run at 2, gaining additional liberties.



**Diagram 26**

**Diagram 27:**

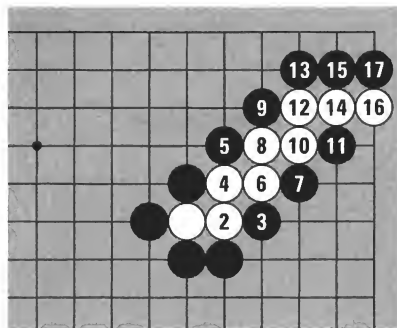
Black 1 makes best use of Black . Let's see what happens if White tries to run.



**Diagram 27**

**Diagram 28:**

If White runs at 2, Black can play atari in front at 3. If White then runs at 4, Black can play atari in front again at 5. Using this technique, Black pushes these stones towards the edge. Eventually White will be captured on the first line. Playing atari in front and trapping on the edge is called the **ladder**.



**Diagram 28**



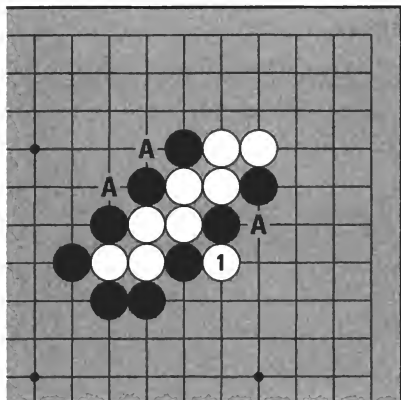


Diagram 33

**Diagram 33:**

After White has escaped, next she may play double atari at 1. In fact, White can play double atari at all the points marked A. Many weak points are created in the ladder, so don't use the ladder technique if your opponent's stones lie along the ladder's path.

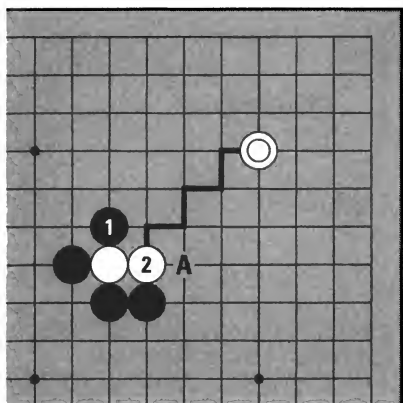
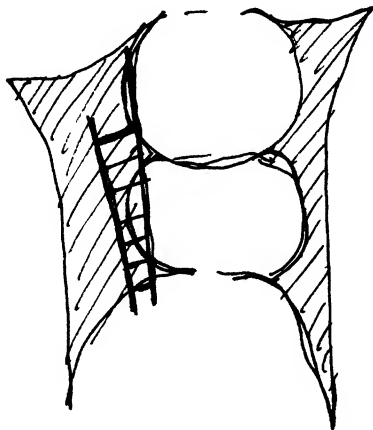


Diagram 34

**Diagram 34:**

If Black plays at 1, because of the marked stone, White can run at 2. If Black continues to try to capture in a ladder at A, White can escape by following the thick line. If there is a white stone near this line, Black should not use the ladder technique. White ◎ is called a **ladder breaker**.



## 4. THE NET

So far, capturing techniques have involved reducing the liberties of enemy stones. There are also indirect methods.

### Diagram 35:

The black stones are cut by White ◎. Can Black capture this stone?

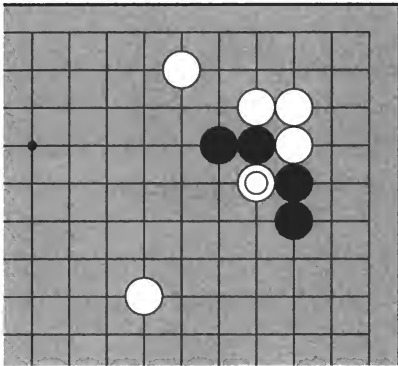


Diagram 35

### Diagram 36:

If Black tries the ladder with 1, White can escape because there is a ladder breaker.

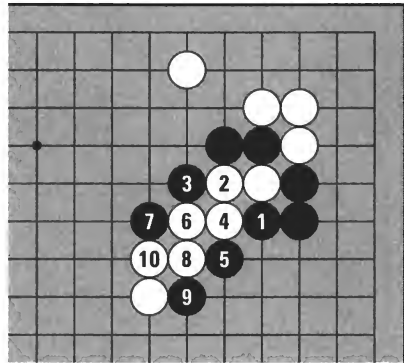


Diagram 36

### Diagram 37:

In this position, Black can snare White with 1. White cannot escape.

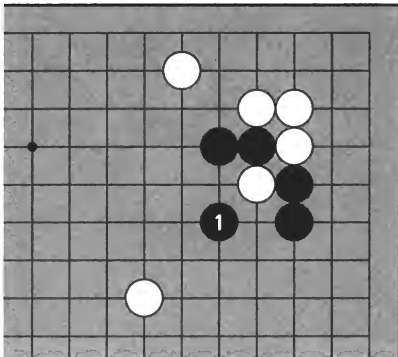


Diagram 37

### Diagram 38:

Even if White pushes out at 2, Black can block at 3. Next if White plays at A, Black can capture at B. This technique is called the **net**.

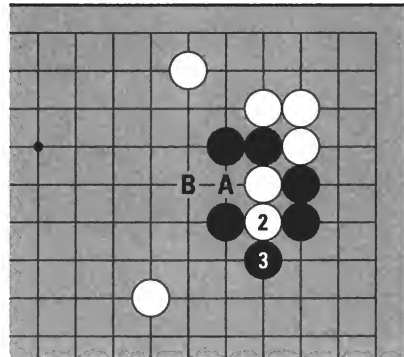
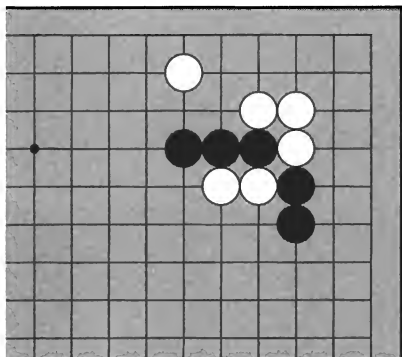


Diagram 38

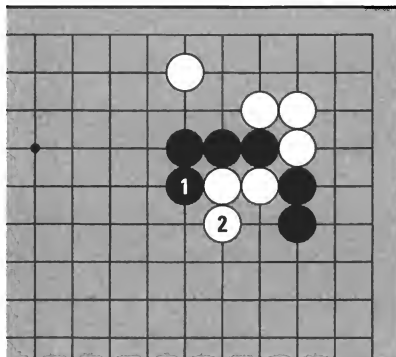


**Diagram 39:**

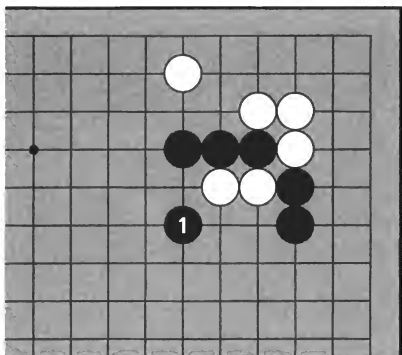
Black can capture two stones in a net. How?

**Diagram 39****Diagram 40:**

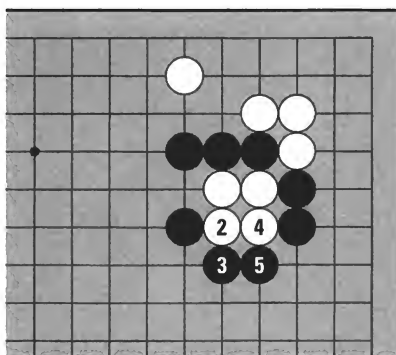
If Black plays at 1, White can escape at 2, so Black can't snare White this way.

**Diagram 40****Diagram 41:**

Black 1 is the key point of the net. The two stones can't escape.

**Diagram 41****Diagram 42:**

If White tries to push out with 2, Black can block at 3. Next, if White plays at 4, Black can block again at 5, and White is in atari. White shouldn't try to save stones caught in a net like this, because it only increases the loss.

**Diagram 42**

## 5. THE SNAPBACK

There is a capturing technique in which you put your own stone in atari. It's like baiting a trap.

### Diagram 43:

If Black wants to capture two stones, where should Black play?

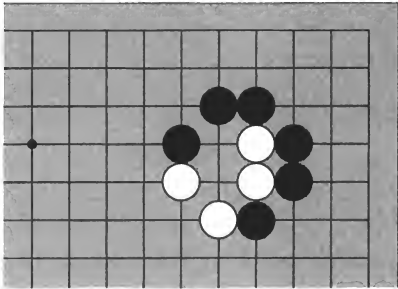


Diagram 43

### Diagram 44:

Black plays atari at 1. This looks like walking into the tiger's mouth, but it's the white stones that are as good as captured.

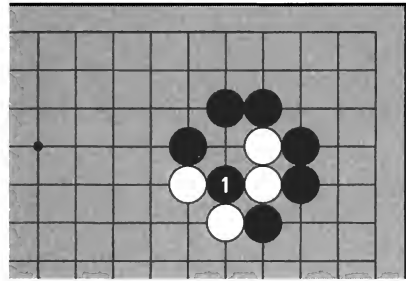


Diagram 44

### Diagram 45:

If White plays at 2, the black stone is captured, but now three white stones are in atari.

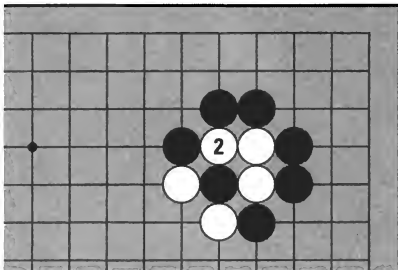


Diagram 45

### Diagram 46:

Black can capture them at 3. It doesn't do any good to take the bait if caught in the **snapback**.

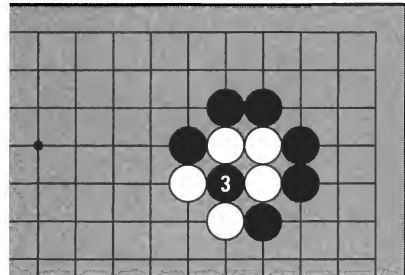
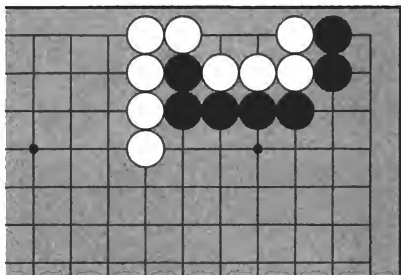


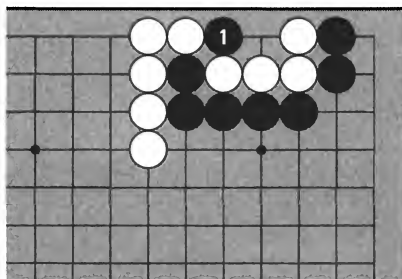
Diagram 46

**Diagram 47:**

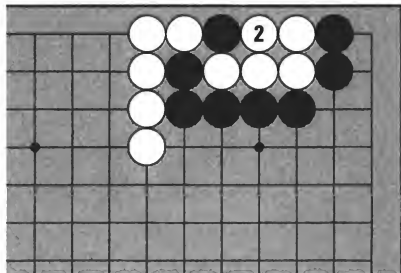
Four white stones on the right can be captured in a snapback. It looks like White has territory, but actually there's a weak point.

**Diagram 47****Diagram 48:**

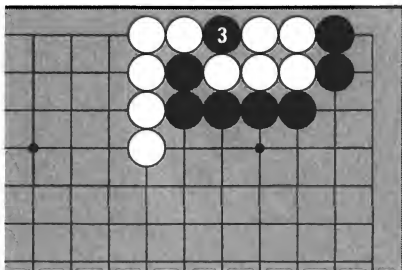
Black can play at 1. This cut is the vital point of the snapback. Black 1 puts the four stones in atari. Black 1 is in atari as well.

**Diagram 48****Diagram 49:**

White can capture with 2, but after she captures, five white stones are in atari.

**Diagram 49****Diagram 50:**

Black can capture them at 3. Once Black plays 1, the four stones are caught in a snapback and cannot be saved.

**Diagram 50**

## 6. THE PIN

You can capture stones when your opponent cannot connect all their weak points. Stones in atari that cannot connect are said to be **pinned** (*chok-chok-soo*, “chopping off the tail” in Korean, and *oi-otoshi*, “chasing and fleeing” in Japanese). Sometimes you can take advantage of weak points and pin directly. Other times you’ll need the **throw-in** technique to reveal weak points.

### Diagram 51:

White has two weak points at A and B. Black can take advantage of them to capture two stones. How?

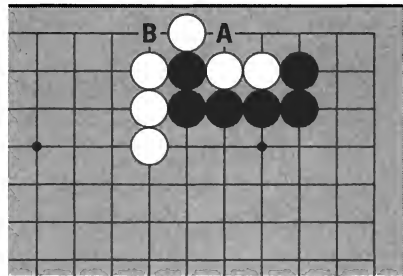


Diagram 51

### Diagram 52:

Black can play atari at 1. White needs to connect at A to prevent Black from playing there and capturing two stones, but—

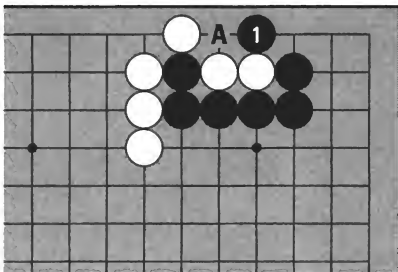


Diagram 52

### Diagram 53:

If White connects at 2, Black can capture four stones at 3. White didn't have time to connect both weak points, so the two stones could not be saved.

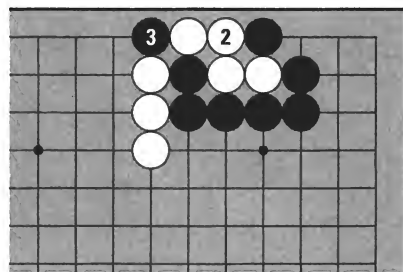
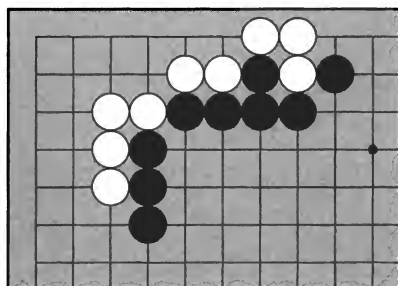


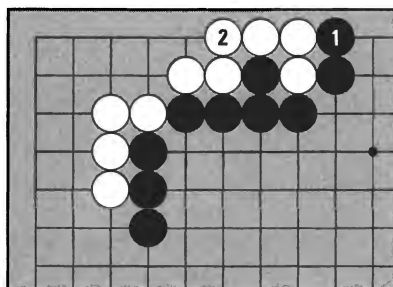
Diagram 53

**Diagram 54:**

How can Black take advantage of White's weak points to pin three stones?

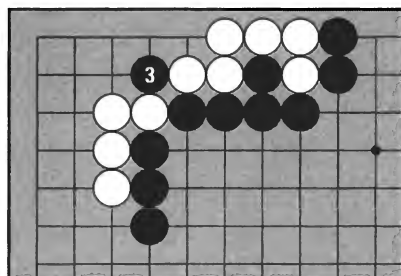
**Diagram 54****Diagram 55:**

Black plays atari at 1. If White connects at 2, she will leave a big weak point.

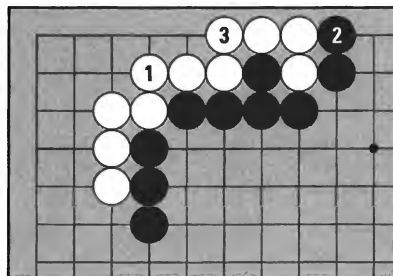
**Diagram 55****Diagram 56:**

Black can cut off six stones at 3. White is in atari now and cannot escape.

When Black threatens to capture at 1 in *Diagram 55*, White shouldn't connect at 2. If White tries to save the three stones, six stones will die.

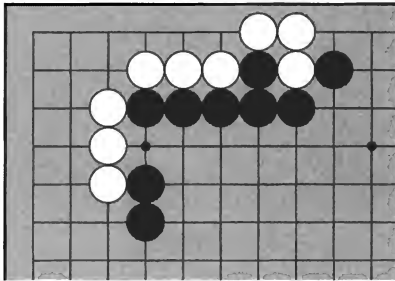
**Diagram 56****Diagram 57:**

If it's White's turn and she wants to save the three stones, she'll have to connect one of the weak points at 1. Then if Black plays atari at 2, she can connect at 3 with no problem.

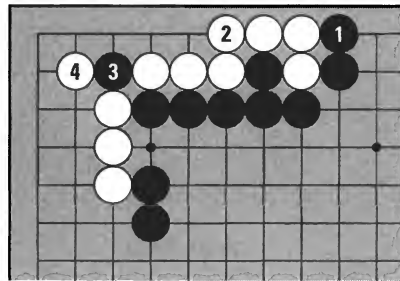
**Diagram 57**

**Diagram 58:**

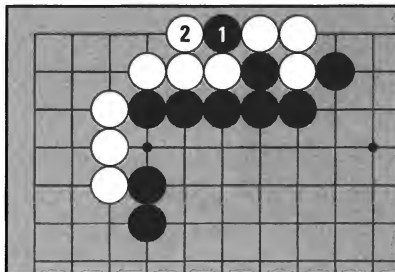
Here, Black can capture three stones.

**Diagram 58****Diagram 59:**

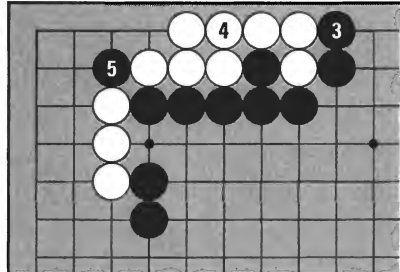
In this case, if Black plays at 1, White can connect at 2. If Black cuts at 3, White is not in atari and so has time to capture the cutting stone with 4.

**Diagram 59****Diagram 60:**

Here, Black should throw in a stone at 1. The three white stones are in atari. Black 1 is in atari as well, so White can capture it with 2.

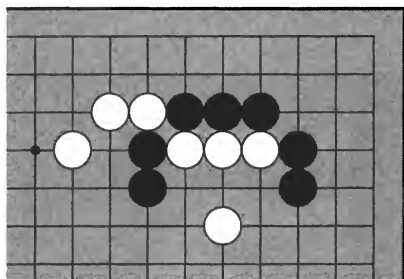
**Diagram 60****Diagram 61:**

Now Black can play at 3. The three stones are pinned. White shouldn't connect at 4, since Black can then capture eight stones by cutting at 5. With the throw-in, Black sacrificed one stone in order to reduce White's liberties, revealing weak points in White's position.

**Diagram 61**

**Diagram 62:**

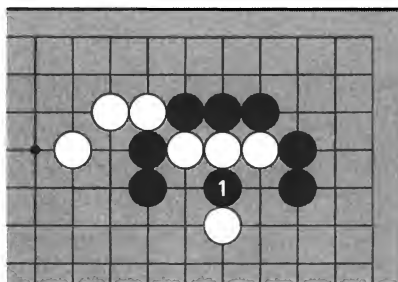
This is a famous shape called the **crane's nest**. Black can capture three stones.



**Diagram 62**

**Diagram 63:**

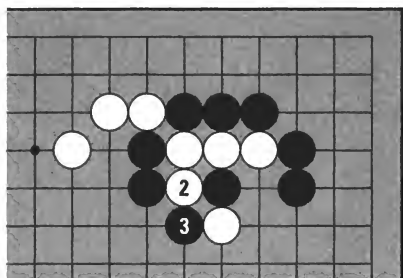
Black plays at the center with 1. This is the key point.



**Diagram 63**

**Diagram 64:**

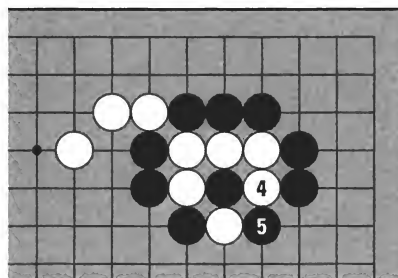
If White tries to push out with 2, Black blocks at 3. Now four white stones are in atari.



**Diagram 64**

**Diagram 65:**

If White captures one stone with 4, Black 5 puts White in atari, pinning five stones. (If White connects at the original Black 1, all seven white stones will be in atari and Black can capture.) This means that when Black plays at the center of the crane's nest, White can't save the three stones.

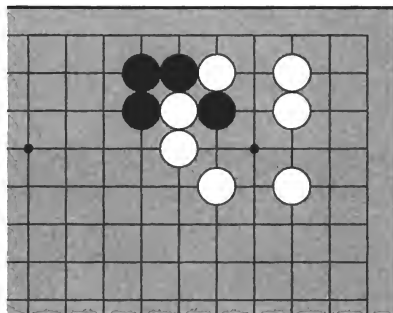


**Diagram 65**

# TRY IT YOURSELF

## Problem 1:

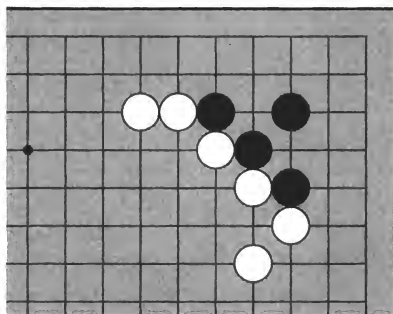
One black stone is cut off. If it wants to escape Black will have to capture the cutting stone. How can he do so?



Problem 1

## Problem 2:

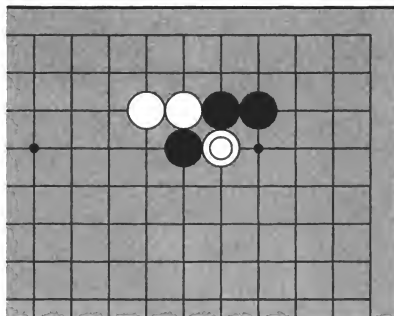
There is a weak point in White's wall. Try to capture one white stone by making a double threat.



Problem 2

## Problem 3:

How can Black capture the marked stone?



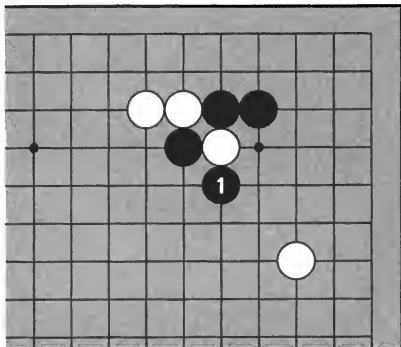
Problem 3



# TRY IT YOURSELF

## Problem 4:

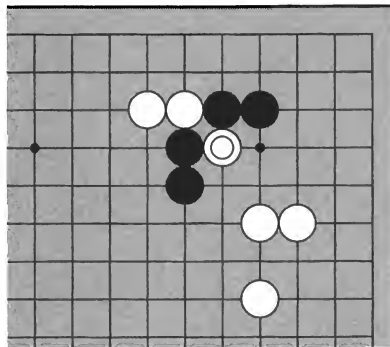
*If Black plays 1, does the ladder work?*



**Problem 4**

## Problem 5:

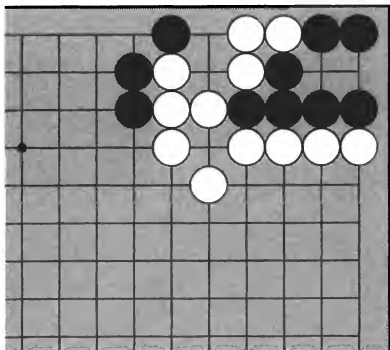
*Is there any way for Black to capture the marked stone?*



**Problem 5**

## Problem 6:

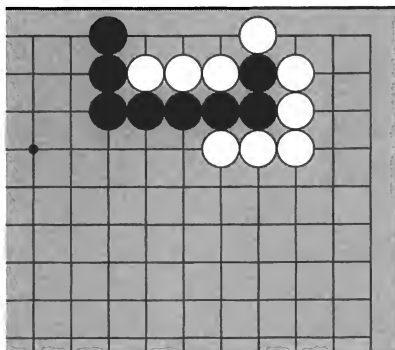
*It looks like Black is surrounded in the corner but White has a weak point. Where can Black play?*



**Problem 6**

## Problem 7:

*Black can use White's weak points to capture some stones. Where can Black play?*

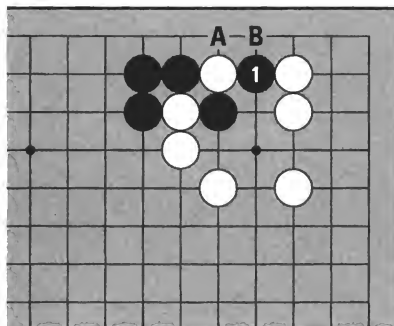


**Problem 7**

# ANSWERS

## Answer 1:

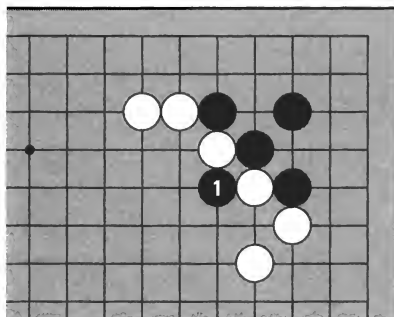
Black 1, pushing White towards the edge, is correct. White can't escape — if White A, Black B.



Answer 1

## Answer 2:

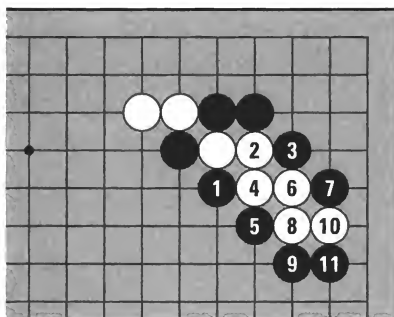
Black 1 puts White in double atari.



Answer 2

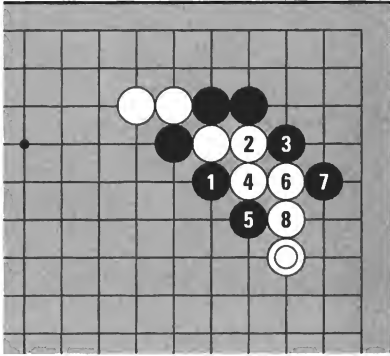
## Answer 3:

Black plays 1. If White tries to run at 2, Black can capture by playing the ladder sequence.



Answer 3

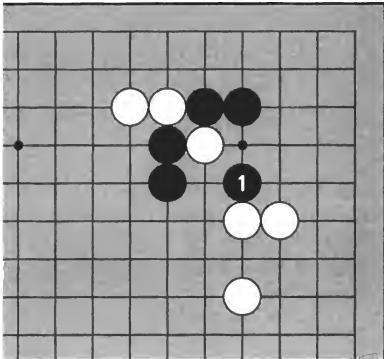
# ANSWERS



*Answer 4*

## Answer 4:

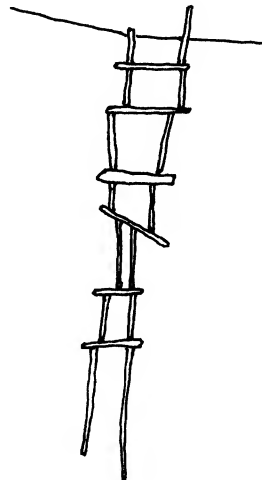
White ◎ is a ladder breaker. If Black tries to capture anyway with 1 to 7, White can escape by connecting at 8.



*Answer 5*

## Answer 5:

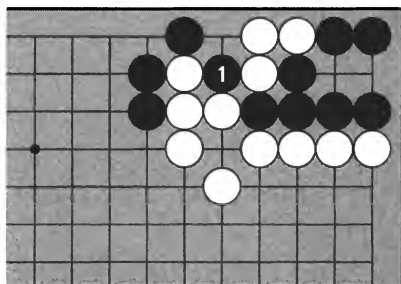
The net of Black 1 is the only way to capture. White can't escape.



# ANSWERS

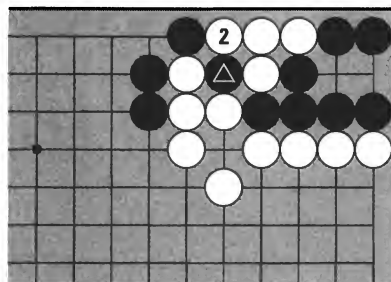
## Answer 6:

*Black 1 is the vital point for catching three stones in a snapback.*



Answer 6a

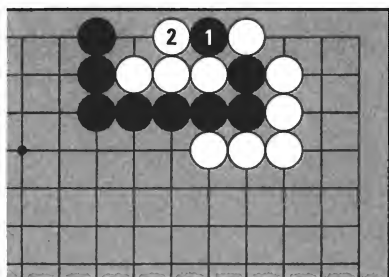
*If White captures Black 1 with 2, Black can capture four stones with 3 (at Black △).*



Answer 6b

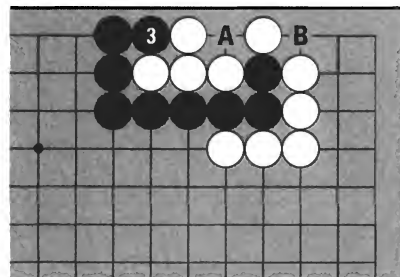
## Answer 7:

*The throw-in of Black 1 is the key. White can capture Black 1 but—*



Answer 7a

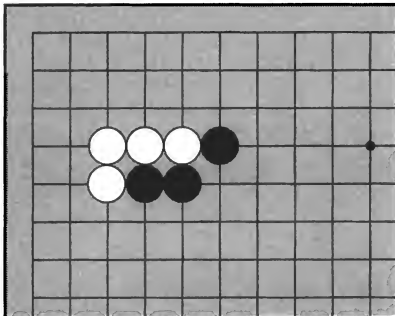
*Black can pin four stones with 3. (If White connects at A, Black captures at B.)*



Answer 7b

# CONNECTING TECHNIQUES

*It is important to keep your stones connected. When connected, stones can work as a unit to surround territory, but when cut, it's work just to save them. There are many ways to connect stones.*

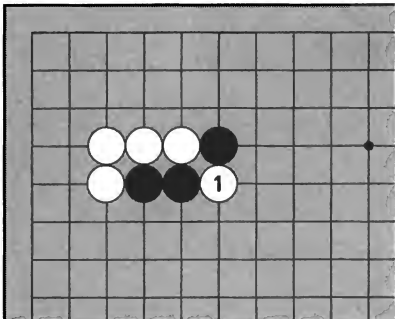


*Diagram 1*

## 1. THE TIGER'S MOUTH

*Diagram 1:*

White's stones are all connected but Black's are not. Black can be cut.



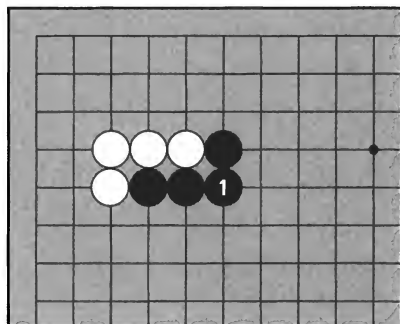
*Diagram 2*

*Diagram 2:*

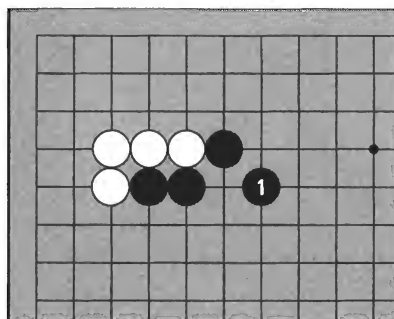
If White plays at 1, Black is cut in two. How can Black protect against this cut?

**Diagram 3:**

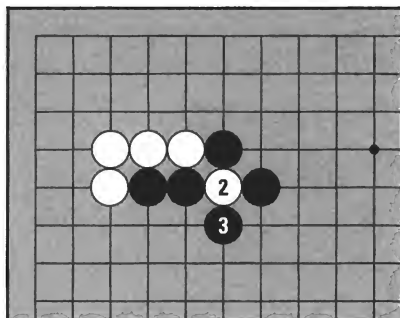
Black can connect at 1. This is a solid connection. There are also other ways to connect.

**Diagram 3****Diagram 4:**

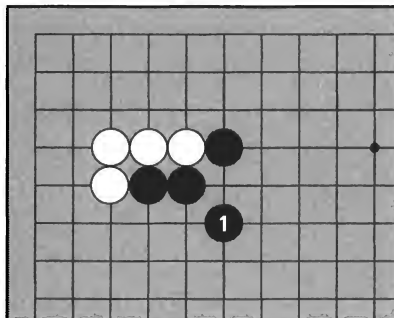
Black 1 here is also a connection. Three stones in a “V” shape is called the **tiger’s mouth**. (Some people call this the “hanging connection.”) If White tries to cut by playing in the tiger’s mouth, what will happen?

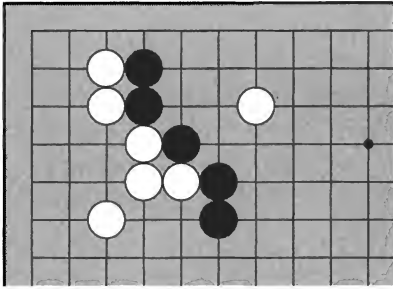
**Diagram 4****Diagram 5:**

If White cuts at 2, Black 3 can capture the stone. Playing in the tiger’s mouth is suicidal. White can’t cut here, so Black is connected.

**Diagram 5****Diagram 6:**

Black 1 is also a tiger’s mouth connection. You can solidly connect in only one place, but you can make a tiger’s mouth connection in two places. In some cases, one needs to connect with the tiger’s mouth.

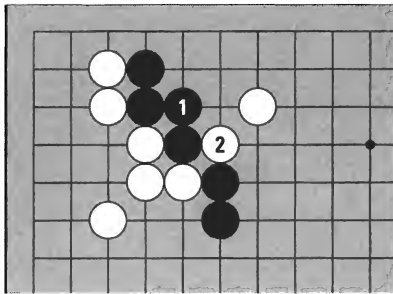
**Diagram 6**



*Diagram 7*

**Diagram 7:**

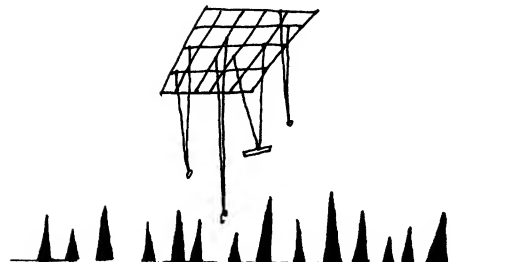
These black stones have cutting points. Where can Black play to connect?



*Diagram 8*

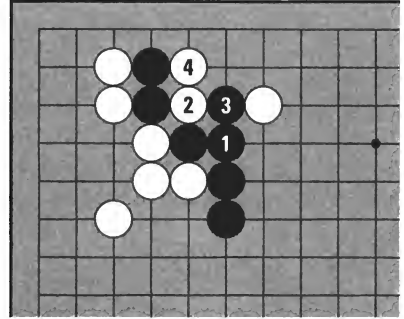
**Diagram 8:**

If Black connects at 1, White can cut at 2.

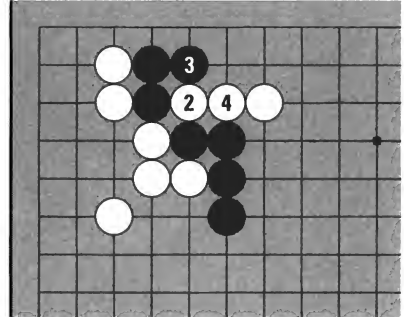


**Diagram 9:**

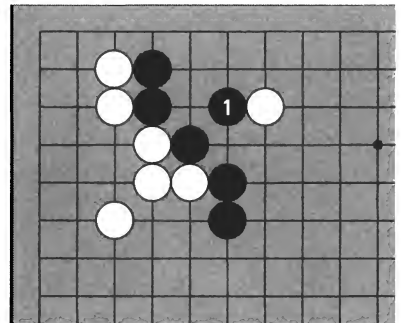
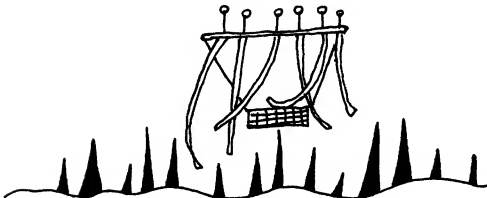
How about connecting at Black 1? White can still cut, this time at 2. If Black plays at 3, White can capture two stones with 4.

**Diagram 9****Diagram 10:**

When White cuts at 2, if Black plays at 3 here, White can connect at 4, and the black stones are still cut. In this shape, Black can't connect both weak points at the same time with a solid connection.

**Diagram 10****Diagram 11:**

Black can connect at 1 with a tiger's mouth. If White cuts on either side, Black can capture the cutting stone. Black 1 connects both weak points at the same time.

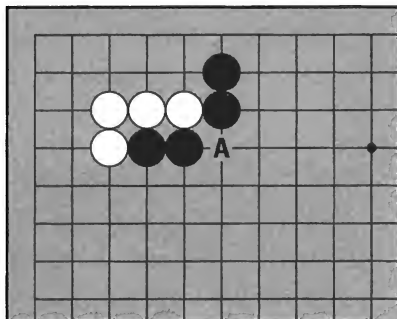
**Diagram 11**



## 2. THE KNIGHT'S MOVE

**Diagram 12:**

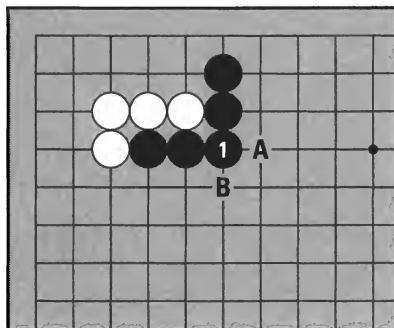
The four black stones are not connected. How can Black connect the weak point at A?



**Diagram 12**

**Diagram 13:**

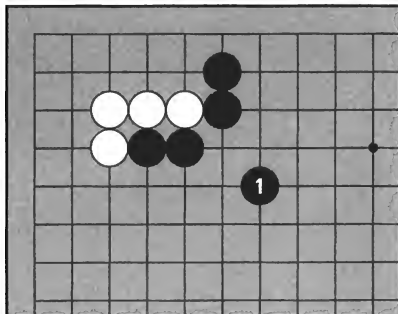
Black can connect solidly at 1, or make a tiger's mouth connection at A or B, but there is another way.



**Diagram 13**

**Diagram 14:**

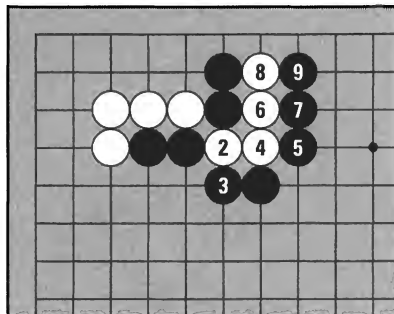
Black 1 also connects.



**Diagram 14**

**Diagram 15:**

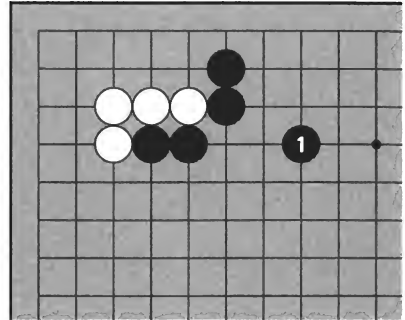
If White cuts at 2, Black can push the cutting stone towards the edge in the sequence to 9. The cut here is a slow form of suicide.



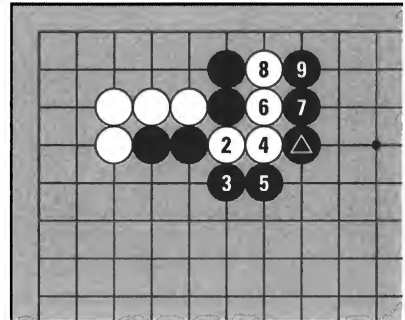
**Diagram 15**

**Diagram 16:**

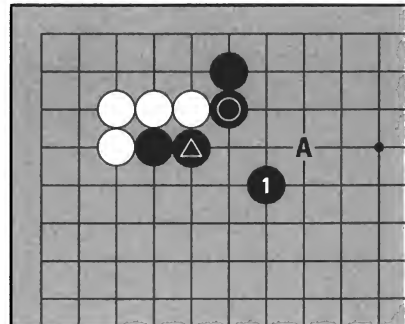
Black 1 is also a connection. If White cuts, once again Black can capture the cutting stone.

**Diagram 16****Diagram 17:**

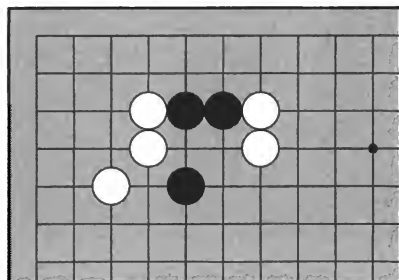
Black captures in the sequence to 9. Black  $\triangle$  is an advanced connecting technique in which Black has to anticipate where a stone is needed if White cuts. This is another example of reading.

**Diagram 17****Diagram 18:**

Black 1 is called the **knight's move**. (The Japanese call this *keima* meaning “knight,” but the Koreans call it *nar-il-ja* meaning “day,” because it looks like the Chinese character for day.) Here, there are two stones that have a knight's move relationship with Black 1: Black  $\triangle$  and Black  $\odot$ . A stone at A would also be a knight's move because of its relationship with Black  $\odot$ . The knight's move is used in many contexts. Connecting using the knight's move is a difficult technique, so just be aware of it for now.

**Diagram 18**

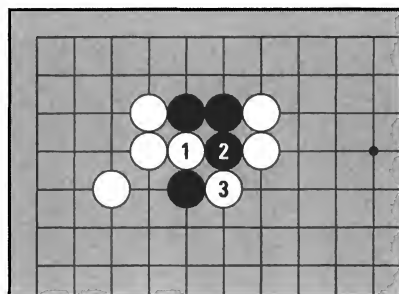
### 3. THE BAMBOO JOINT



*Diagram 19*

*Diagram 19:*

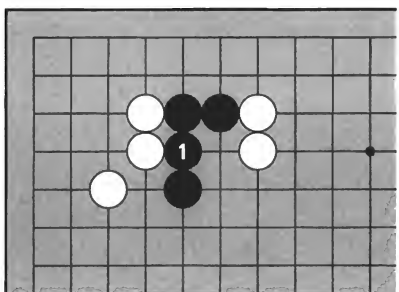
The two black stones are not quite connected to the other black stone.



*Diagram 20*

*Diagram 20:*

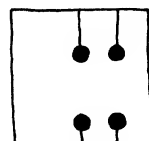
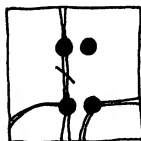
White can cut at 1. Even if Black pushes out at 2, White can cut at 3, so Black wants to protect this cutting point.



*Diagram 21*

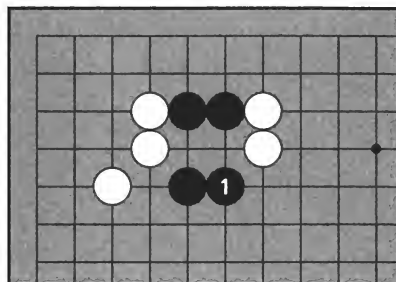
*Diagram 21:*

If Black plays at 1, Black is connected, but there is a better way.

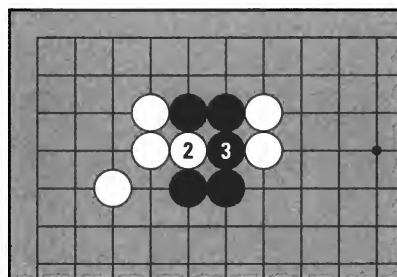


**Diagram 22:**

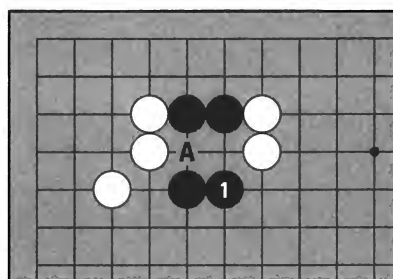
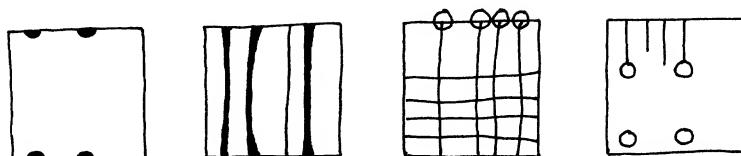
Black 1 here is a good way to connect.

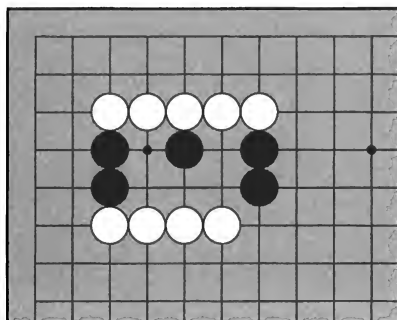
*Diagram 22***Diagram 23:**

If White tries to cut at 2, Black can connect at 3.  
If White tries to cut at 3, Black can connect at 2.

*Diagram 23***Diagram 24:**

Black 1 makes the shape known as the **bamboo joint**, where two pairs of stones are separated by a point. This shape is as good as connected. Why is Black 1 better than a play at A? It's better for moving out into the center.

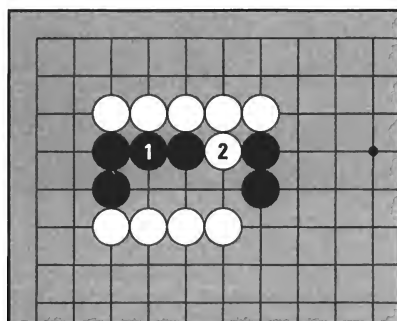
*Diagram 24*



*Diagram 25*

***Diagram 25:***

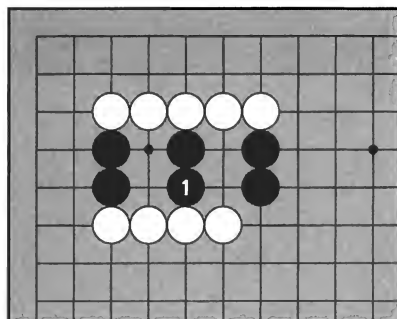
How can you connect all the black stones?



*Diagram 26*

***Diagram 26:***

If Black connects at 1, White can cut at 2.  
If Black connects at 2, White can cut at 1.



*Diagram 27*

***Diagram 27:***

In this case, the bamboo joint of Black 1 is the only way to connect. White cannot cut any of these stones.

## 4. CROSSING UNDER

### Diagram 28:

The three black stones in the corner are in danger. If Black doesn't connect to the left side, Black is surrounded in the corner without two eyes. How can Black connect?

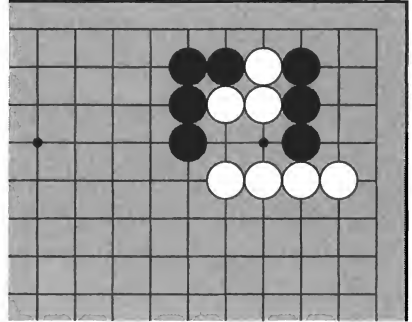


Diagram 28

### Diagram 29:

Black 1 connects the two groups of stones. Black has **crossed under** White.

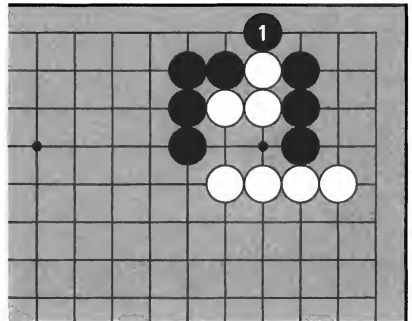


Diagram 29

### Diagram 30:

If White cuts at 2, Black can capture at 3. If White cuts at A, Black can capture at B.

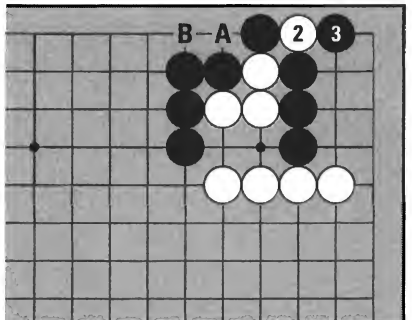
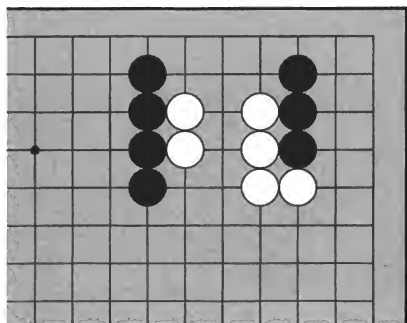


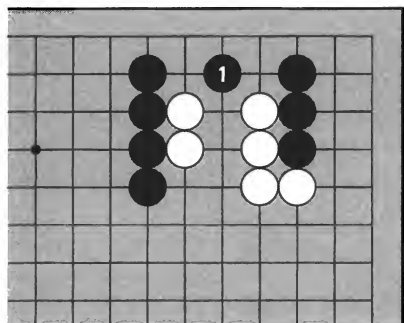
Diagram 30



*Diagram 31*

**Diagram 31:**

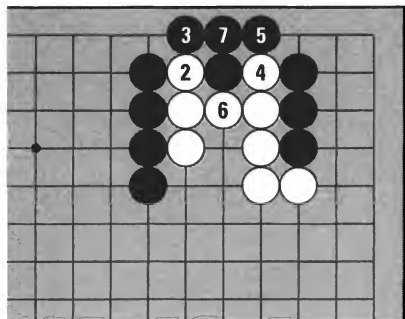
How can Black connect the stones on the left to the ones on the right?



*Diagram 32*

**Diagram 32:**

Black 1 here crosses under the white stones.

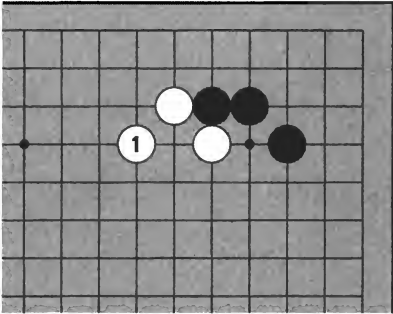


*Diagram 33*

**Diagram 33:**

If White pushes in at 2, Black can cross under at 3. Next if White pushes in at 4, Black can cross under at 5. If White plays atari at 6, Black can connect safely at 7.

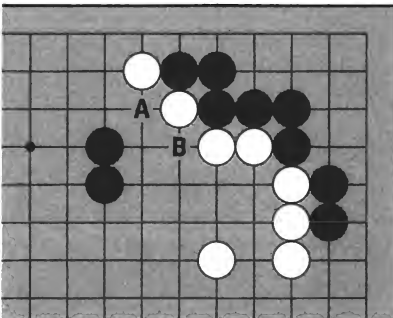
# TRY IT YOURSELF



**Problem 1**

## **Problem 1:**

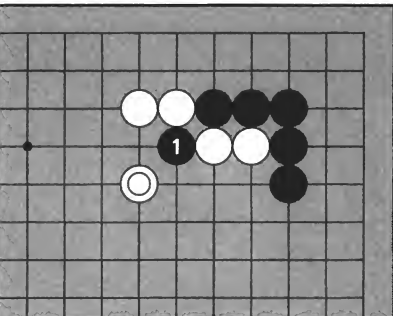
*White has played the tiger's mouth at 1. Can Black cut?*



**Problem 2**

## **Problem 2:**

*White has cutting points at A and B. Where can White play to protect both weak points at the same time?*



**Problem 3**

## **Problem 3:**

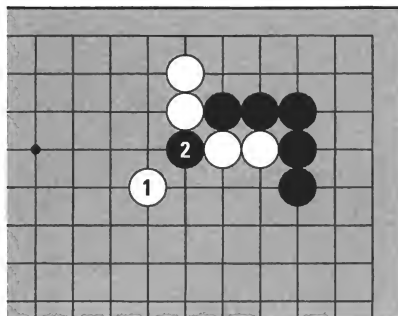
*When White protected the cut with White ☉, Black cut anyway at 1. This is a reckless move. Where can White play?*



# TRY IT YOURSELF

## Problem 4:

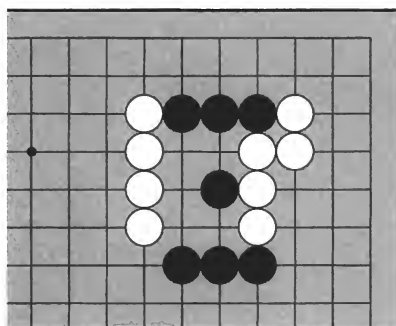
White read that the knight's move of 1 would protect the weak point. Black cut anyway at 2. How can White capture this stone?



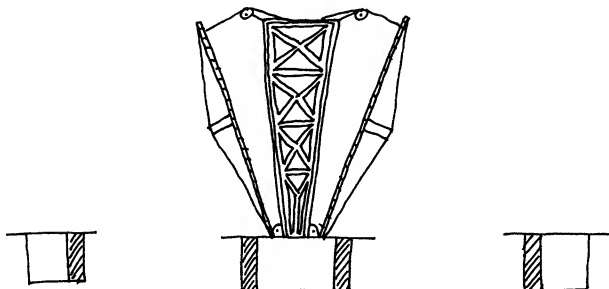
Problem 4

## Problem 5:

To connect all the black stones, where should Black play?



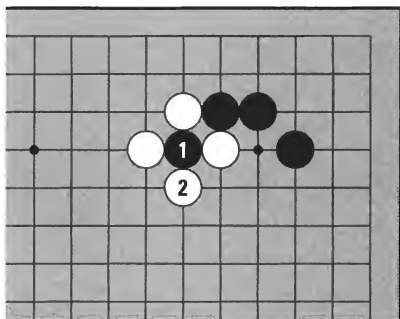
Problem 5



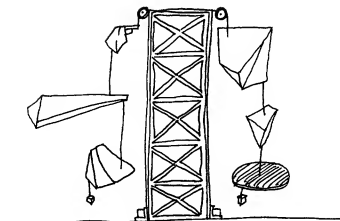
# ANSWERS

**Answer 1:**

*Black can't cut. If Black plays at 1, White can capture at 2.*

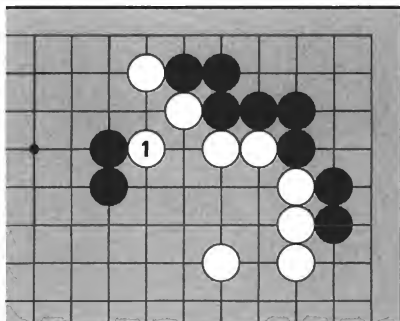


**Answer 1**



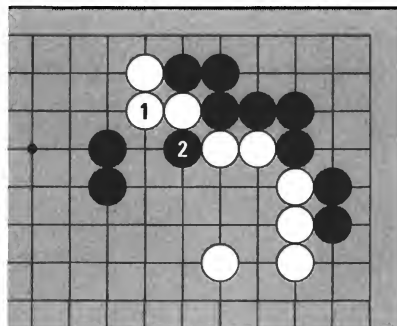
**Answer 2:**

White can connect at 1, protecting both cutting points at the same time.



**Answer 2a**

*If White connects solidly at 1, Black can cut at 2.*

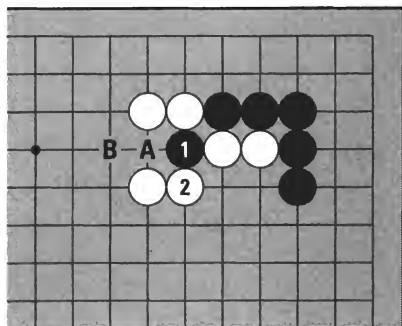


**Answer 2b**

# ANSWERS

## Answer 3:

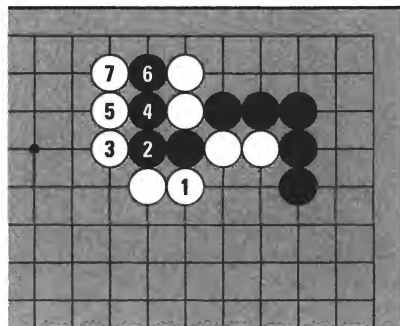
White can capture the cutting stone easily at 2. If Black tries to escape at A, White can capture at B.



Answer 3

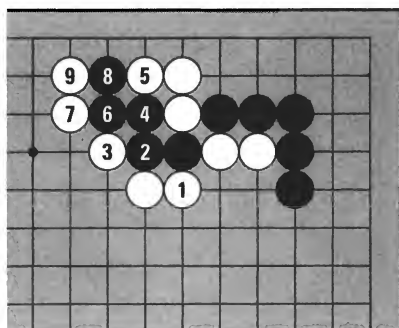
## Answer 4:

White can capture the cutting stone by pushing it towards the edge in the sequence from 1 to 7.



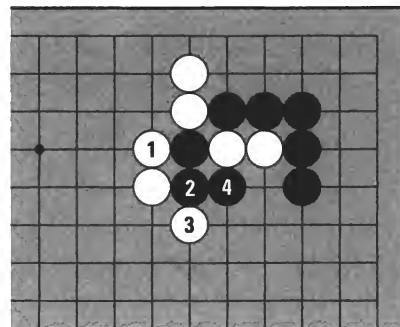
Answer 4a

White can also capture with the sequence from 1 to 9, in a ladder. Black can't cut here.



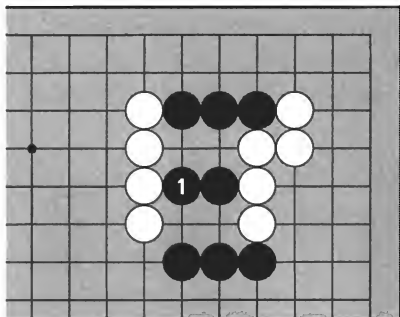
Answer 4b

White shouldn't play 1 on this side, however, since Black can capture two stones.



Answer 4c

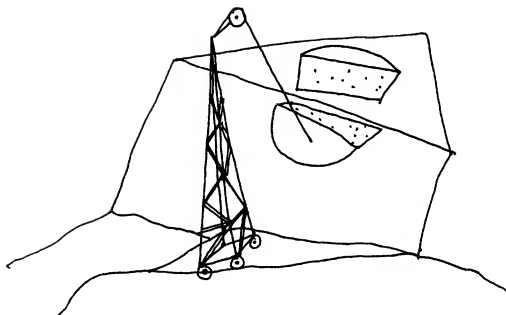
# ANSWERS



**Answer 5:**

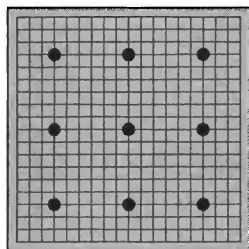
*The bamboo joint at Black 1 is the only connecting move.*

**Answer 5**

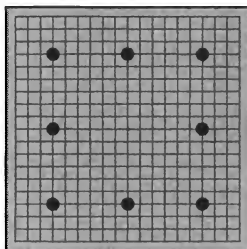


# HANDICAP GO

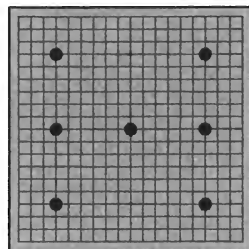
Go has a convenient handicapping system whereby players of different strengths can still play an interesting game. In a handicap game, the weaker player places stones on the board before the game begins. Handicaps range from two to nine stones. They are placed on the star points according to this chart:



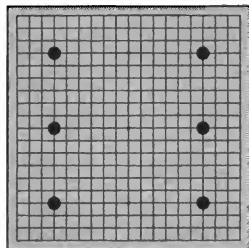
9 stones



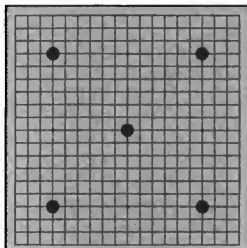
8 stones



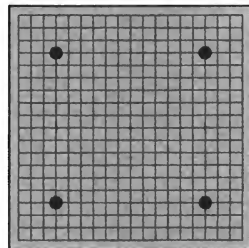
7 stones



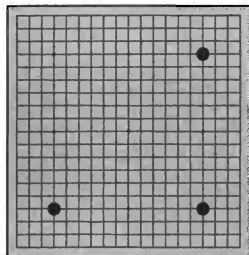
6 stones



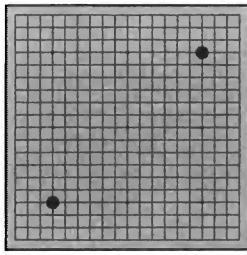
5 stones



4 stones



3 stones



2 stones

*Black plays first, White receives no compensation.*

1 stone

In an even game, Black has an advantage by playing first. To minimize this advantage, White receives **compensation** (*komi* in Japanese and *dom* in Korean). Compensation is added to White's total territory at the end of the game. The standard compensation is  $5\frac{1}{2}$  points. The half point avoids ties.

# GO ETIQUETTE

In Asia, Go is a very mannered game. In fact, many people do not consider it a game at all, but an art. Gamesmanship is not an option. Go etiquette is functional and straightforward, and has a tendency to improve your play. The six keys are:

1. Have good manners even if your opponent does not.
2. Before beginning, players greet each other, usually by bowing.
3. Be calm. Nervous habits make you nervous.
4. Play confidently. Make the best of mistakes.
5. Try to be a gracious winner and a graceful loser.
6. Always put the stones away and thank your opponent before leaving.

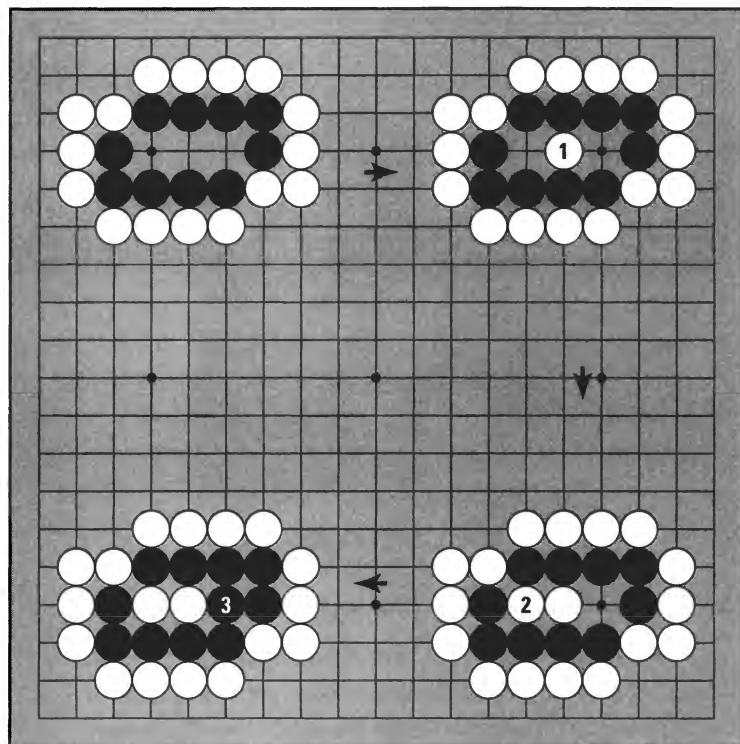
*Safety tip:* Don't comment on games while they are being played.



*The famous retirement game played in 1936 between Honinbo Shusai (on the right) and Kitani Minoru, which became the subject of Nobel prize-winning author Kawabata Yasunari's book, The Master of Go.*

# LIFE AND DEATH TECHNIQUES

## 1. THE CENTER



*Diagram 1*

### *Diagram 1:*

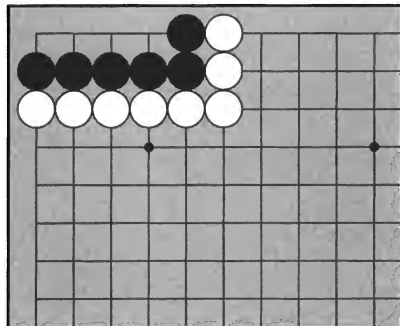
In the upper left, Black has three points of territory. Since he is surrounded, he must make two eyes to live. If he doesn't make two eyes, White can kill by playing 1 at the center of his territory.

Dead stones are helpless to avoid capture. If White wants to take these stones off the board, White can play 2. If Black tries to thwart this plan by capturing at 3, White can play in at 2 again and Black will be in atari.





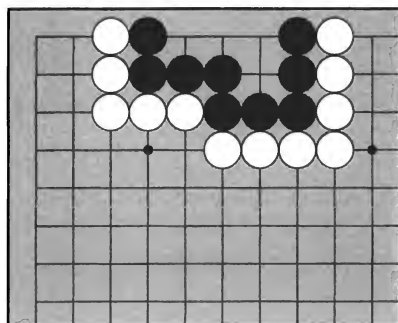
## 2. EYE SHAPES



*Diagram 3*

### *Diagram 3:*

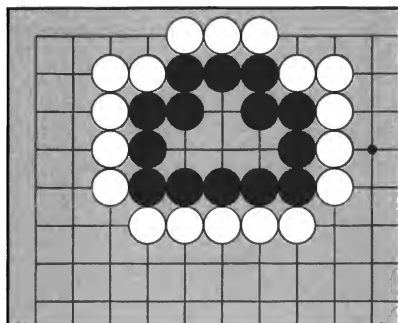
Here Black has four points of territory in a straight line. In this shape, even if Black doesn't play first, he can live. Try to confirm for yourself that no matter where White plays, Black can make two eyes.



*Diagram 4*

### *Diagram 4:*

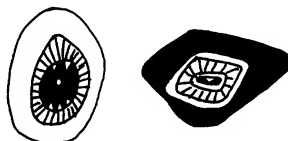
This is another case in which Black has four points of territory and is alive without playing. Neither this black group nor the one above has a definite center point.



*Diagram 5*

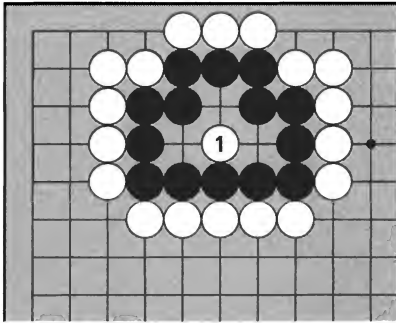
### *Diagram 5:*

This black group, however, is not alive yet.

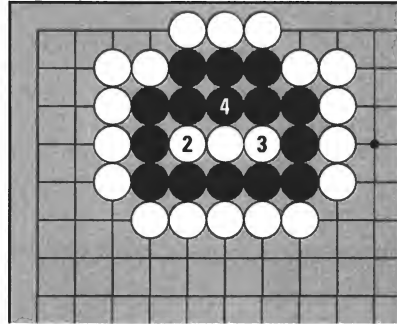


**Diagram 6:**

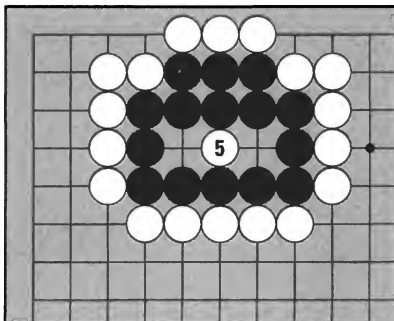
Black can be killed by a play at the center of his territory.

**Diagram 6****Diagram 7:**

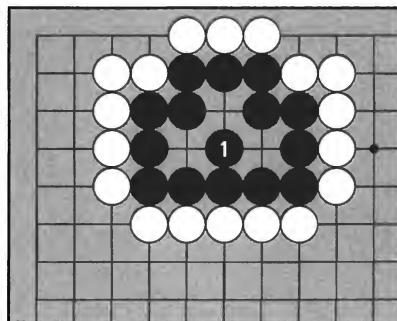
If White wants to take these stones out, she can just start filling in liberties. With 3, Black is in atari. Black can try to prevent capture by capturing at 4, but it doesn't help.

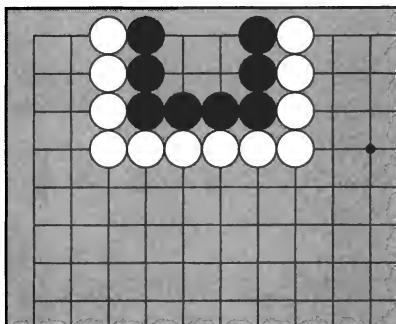
**Diagram 7****Diagram 8:**

White can play at 5, again at the center. Black is helpless to avoid capture.

**Diagram 8****Diagram 9:**

Black has to play at the center first in order to live. With 1, Black has more than two eyes, so he can't be captured.

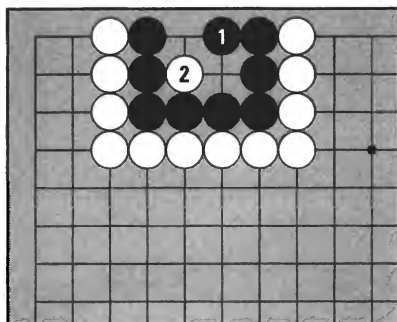
**Diagram 9**



*Diagram 10*

**Diagram 10:**

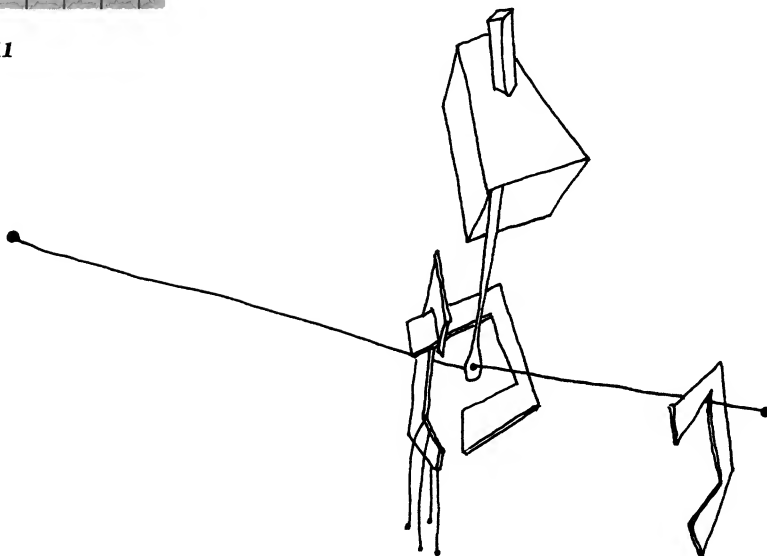
Four points of territory in a square is a very bad shape in terms of life and death. This black group is dead without even being attacked.



*Diagram 11*

**Diagram 11:**

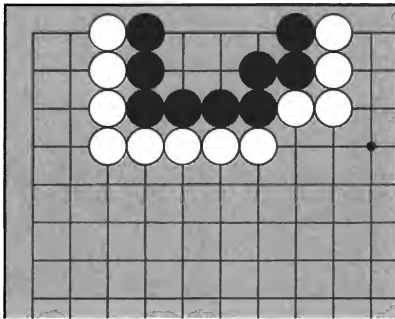
Even if it is Black's turn, he can't live. If Black plays at 1, White can play 2 at the center.



Even groups with five points of territory can be killed if they have a center point.

**Diagram 12:**

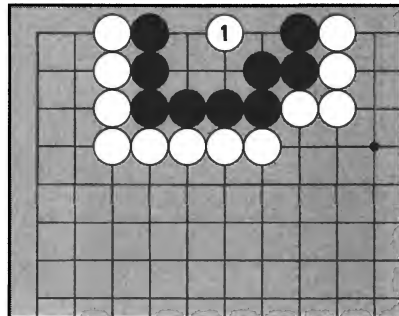
This group has five points arranged in a shape that to me looks like a Jeep. Even though Black has quite a few points, he has a soft spot at the center.



**Diagram 12**

**Diagram 13:**

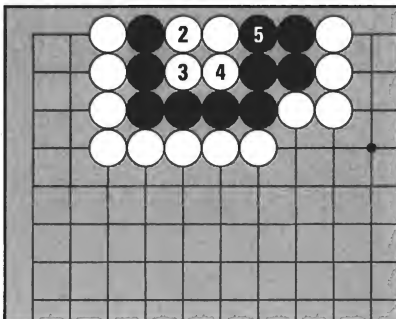
White 1 is the vital point. Black can't live.



**Diagram 13**

**Diagram 14:**

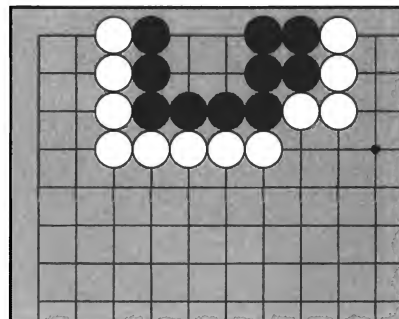
If White wants to take these stones out, once again, White can just start filling in liberties at 2, 3, and 4. Both sides are now in atari, so Black can capture four stones at 5, but this is futile.



**Diagram 14**

**Diagram 15:**

This is the result. Notice that Black now has the dead square shape. It's very useful to remember which shapes are alive and which are dead.



**Diagram 15**

### 3. LIFE AND DEATH SITUATIONS

#### Diagram 16:

Imagine this is your own game. What is the situation?

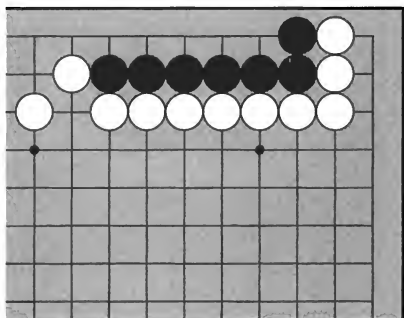


Diagram 16

#### Diagram 17:

If Black plays straight down at 1, Black makes four points of territory in a line. This is a living shape.

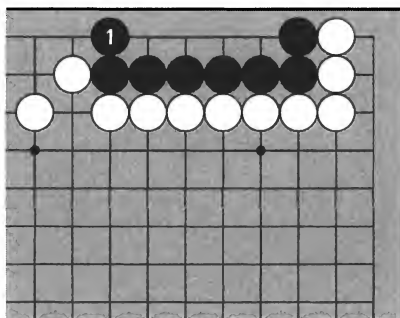


Diagram 17

#### Diagram 18:

If it's White's turn, White can play at 1. This reduces Black's potential space for making eyes. If Black blocks at 2, White can play at the center with 3. This is a dead shape.

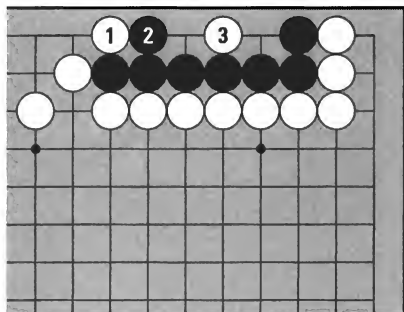


Diagram 18

#### Diagram 19:

Even though Black can capture White ◎ with 4, this only makes a false eye. How do you know it is false? Notice Black 4 is in atari if White blocks at 5.

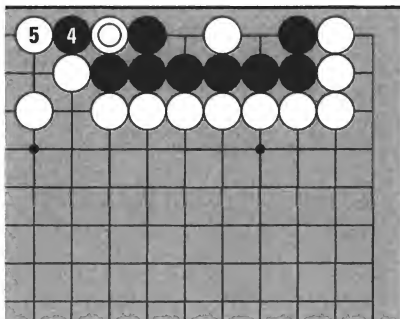
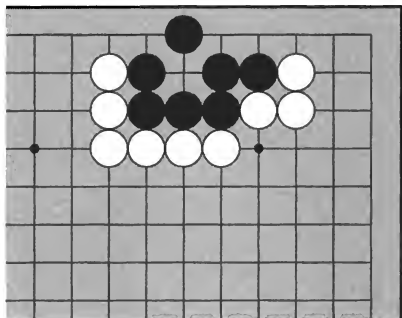


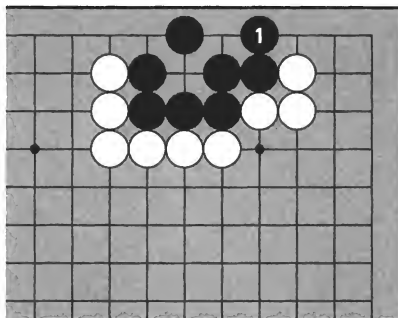
Diagram 19

**Diagram 20:**

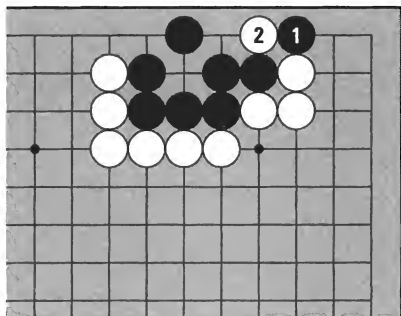
What is the situation here?

**Diagram 20****Diagram 21:**

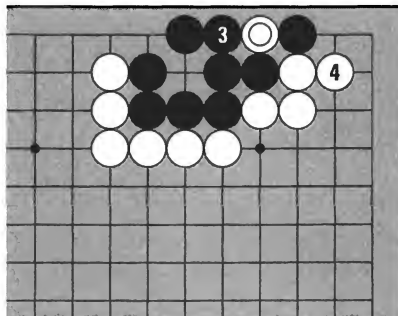
Black has one eye, so he needs to make one more by playing straight down at 1. If it's White's turn, she can kill by playing at 1, preventing the second eye.

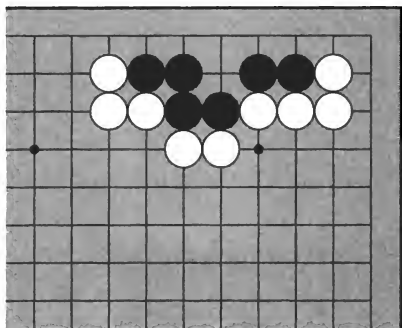
**Diagram 21****Diagram 22:**

Black 1 here is a mistake. Black can't make two eyes if White plays the throw-in at 2.

**Diagram 22****Diagram 23:**

Even though Black captures one stone at 3, Black is dead because White  $\odot$  is a false eye.

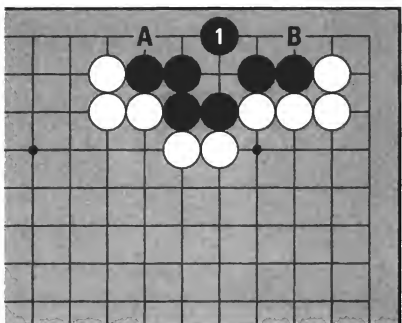
**Diagram 23**



**Diagram 24**

**Diagram 24:**

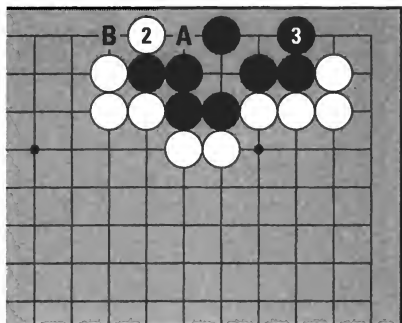
Where does Black need to play to live?



**Diagram 25**

**Diagram 25:**

In this shape, Black 1 is the vital point for life. Next Black can add the second eye by playing either A or B.



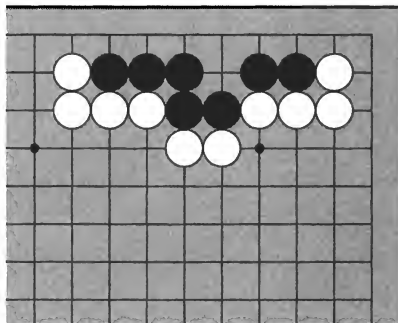
**Diagram 26**

**Diagram 26:**

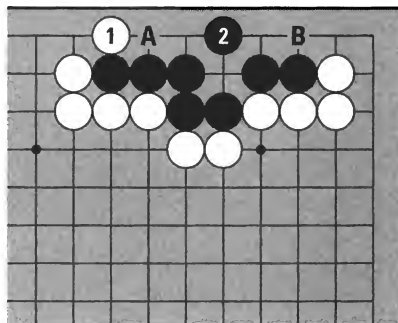
If White plays at 2, Black plays 3. (Notice White can't make one eye false by playing at A, because Black could then capture two stones by playing at B.) If White plays 3 first, Black can play at 2.

**Diagram 27:**

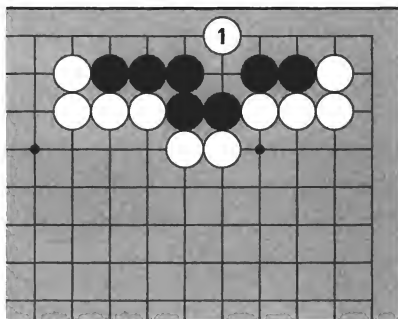
White's turn to play. Try to kill Black.

**Diagram 27****Diagram 28:**

If White plays at 1, Black can live by playing 2. Again, Black can make two eyes by playing either A or B.

**Diagram 28****Diagram 29:**

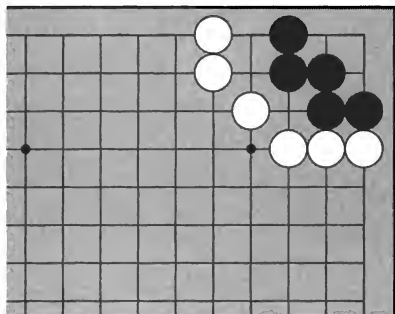
White 1 is the vital point. Black can't live.

**Diagram 29**

Life and death is a very important part of playing Go. If you want to become strong, study life and death especially carefully.



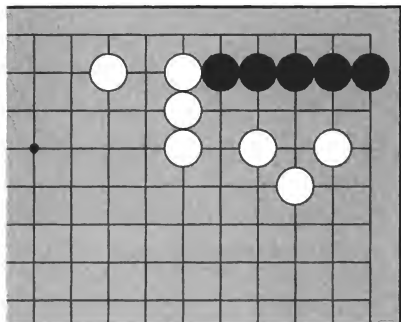
# TRY IT YOURSELF



**Problem 1**

**Problem 1:**

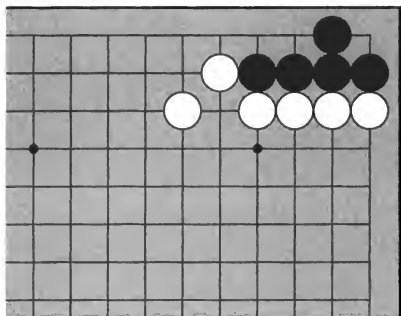
*Where does Black need a stone to live?*



**Problem 2**

**Problem 2:**

*If you were Black, where would you play to ensure life?*



**Problem 3**

**Problem 3:**

*How can White kill?*

[illegible]

•

•

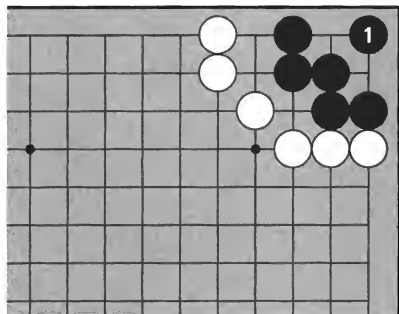
•



•



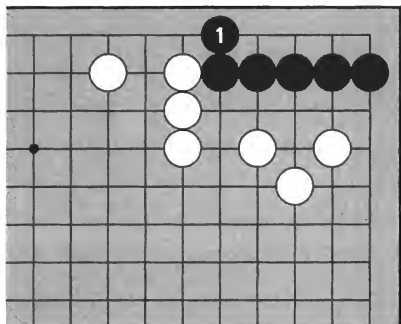
# ANSWERS



**Answer 1**

**Answer 1:**

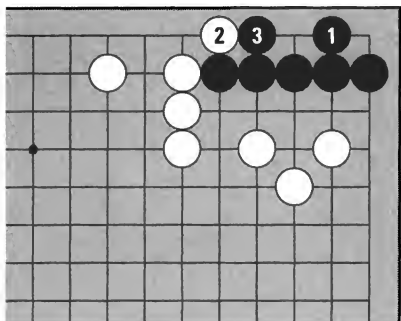
*Black makes two eyes with 1.*



**Answer 2a**

**Answer 2:**

*You can make four points of territory in a line (a live shape) by coming straight down at 1.*



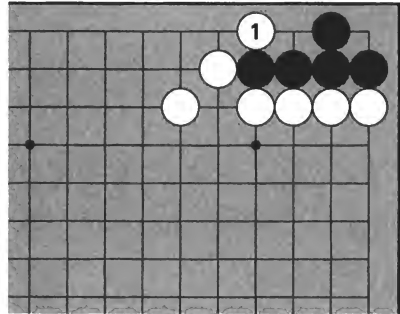
**Answer 2b**

*You also can live by playing 1 on the inside. If White plays the hane (the quick turn) at 2, you can make two eyes by blocking at 3. But compared to 2a, you have two points less territory.*

# ANSWERS

## Answer 3:

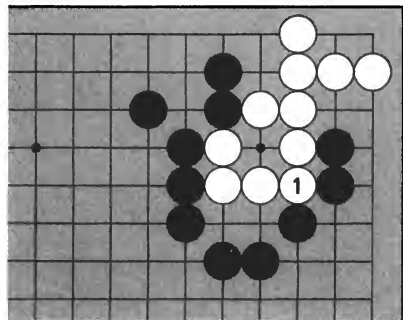
*White can kill with the hane at 1.*



Answer 3

## Answer 4:

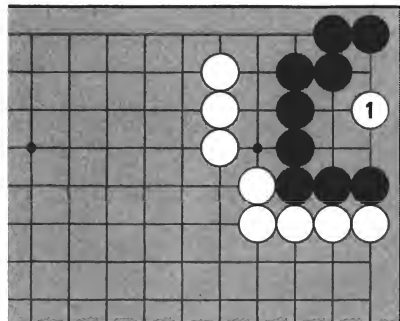
*White needs to play 1 in order to make the second eye. If Black plays 1, the second eye becomes false (notice three white stones would not be solidly connected to the main group). White would then die because her two points of territory in the corner are not separated.*



Answer 4

## Answer 5:

*If White plays 1 at the center, Black dies. Black has liberties on the outside, but can't escape or make two eyes.*

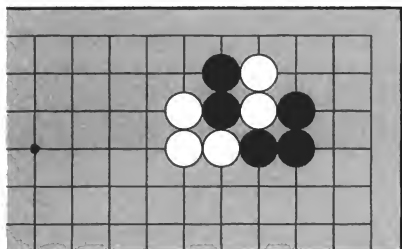


Answer 5

# CAPTURING RACES

*A capturing race is the most vicious kind of fight in Go. In a capturing race, you must block the liberties of your opponent's stones to capture them before they capture you.*

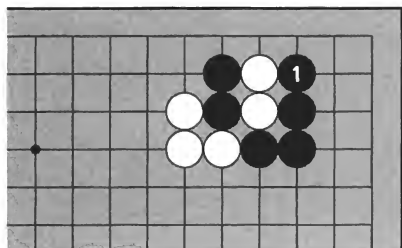
## 1. WHAT IS A CAPTURING RACE?



*Diagram 1*

*Diagram 1:*

Two black stones and two white stones are cutting each other off from their fellows. In this case, one side must capture the other.



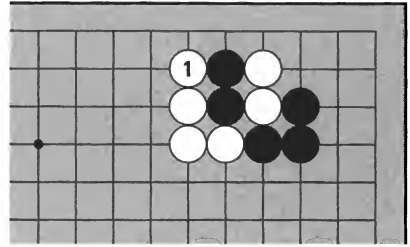
*Diagram 2*

*Diagram 2:*

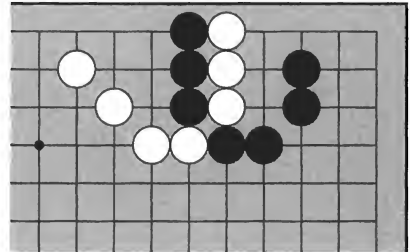
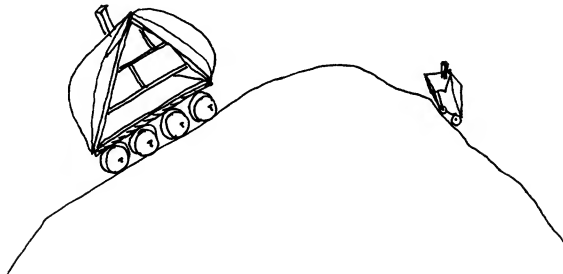
If it's Black's turn to play, he quickly blocks a liberty at 1. Now White can be captured.

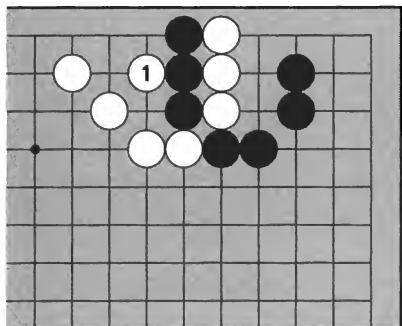
**Diagram 3:**

But if it is White's turn and she blocks a liberty at 1, now Black can be captured. This is a **capturing race** (also called a "liberty fight"). The goal is to capture enemy stones by quickly smothering them before they strangle you.

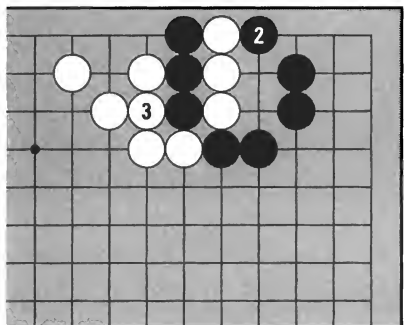
**Diagram 3****Diagram 4:**

Now three black stones and three white stones are cutting each other off. If it's White's turn to play, who will win the capturing race?

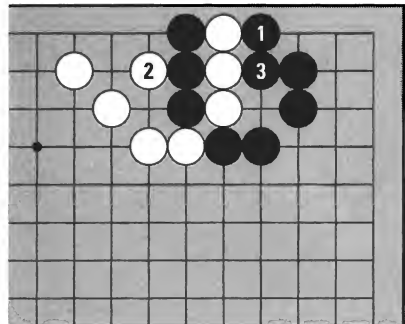
**Diagram 4**

*Diagram 5**Diagram 5:*

Each side has three liberties. If White blocks a liberty first, she can capture.

*Diagram 6**Diagram 6:*

Even if Black blocks a liberty at 2, White can play atari first at 3.

*Diagram 7**Diagram 7:*

If it had been Black's turn to play, he could have captured by blocking a liberty first. Whoever blocks the liberties first is the winner of this fight.

## 2. PREDICTING THE WINNER

To predict who will win a capturing race, count who has more liberties.

### Diagram 8:

This is a capturing race between four black stones and four white stones. Both sides have three liberties. In this case, whoever blocks a liberty first will win.

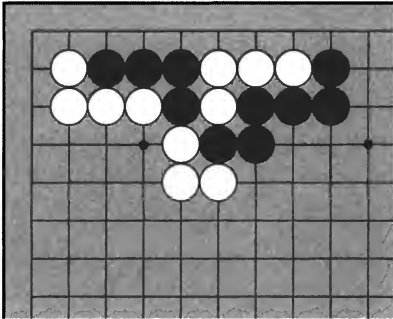


Diagram 8

### Diagram 9:

If Black plays first, he can capture with 1 and 3.

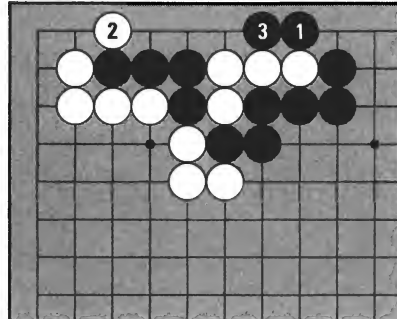


Diagram 9

### Diagram 10:

Here the liberty at A isn't blocked, so the number of liberties is different. Black has four liberties and White has three.

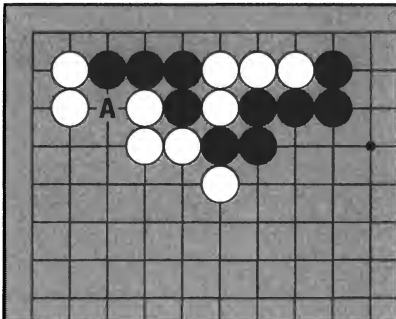


Diagram 10

### Diagram 11:

In this case, even if White plays first, her four stones will be captured first if Black plays 2.

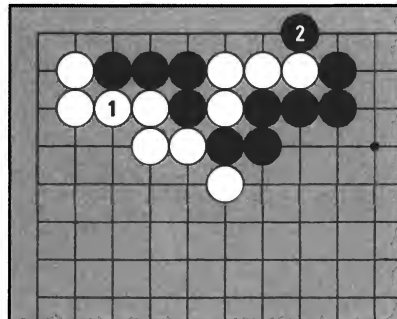


Diagram 11

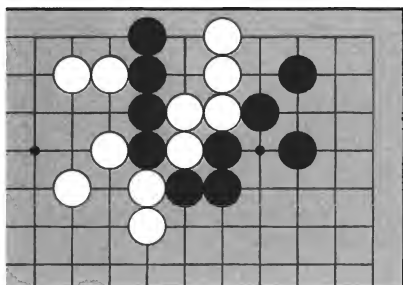


### 3. *BLOCKING LIBERTIES*

Outside liberties are one group's private liberty resource — they belong to one side only. Inside liberties are shared. In a capturing race, **block outside liberties first**.

#### *Diagram 12:*

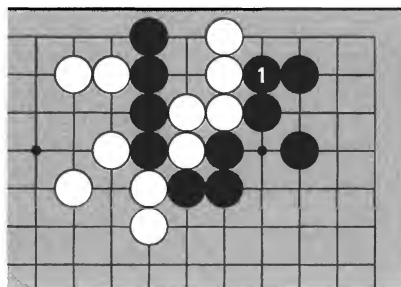
Four black stones and five white stones are in a capturing race. Can you tell which liberties are outside and which are inside? Which liberties should Black block first?



*Diagram 12*

#### *Diagram 13:*

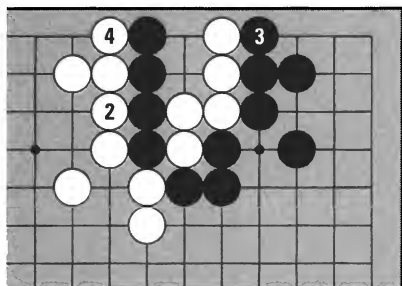
Black has to block an outside liberty with 1. Next—



*Diagram 13*

#### *Diagram 14:*

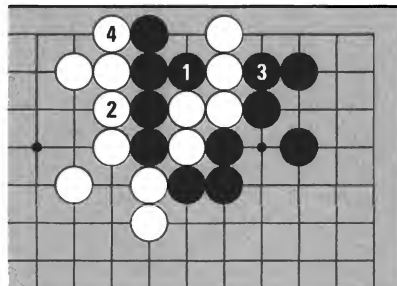
Both sides continue blocking outside liberties with 2, 3, and 4. The result is dual life.



*Diagram 14*

#### *Diagram 15:*

If Black blocks an inside liberty with 1, he can be captured. Always block outside liberties first, since when you block inside liberties, you are blocking your own liberties as well as your opponent's.

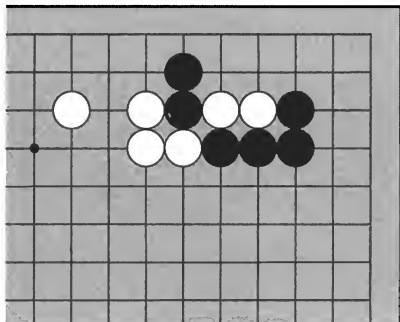


*Diagram 15*

# TRY IT YOURSELF

## Problem 1:

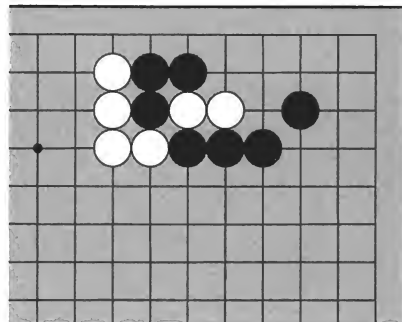
Which stones are cut off? Who will win the capturing race?



Problem 1

## Problem 2:

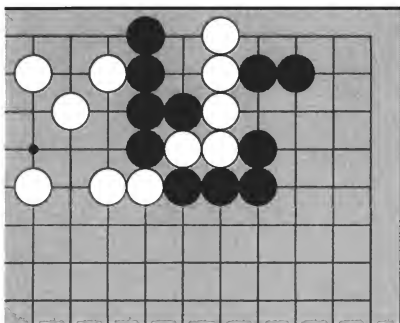
Where can White play to capture three stones?



Problem 2

## Problem 3:

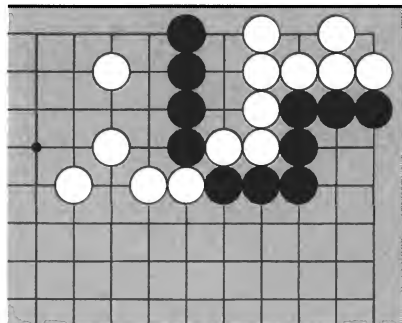
In a capturing race, the motto is "Kill or be killed." How can Black kill?



Problem 3

## Problem 4:

The black and white groups have cut each other off. If it's Black's turn to play, what will happen?

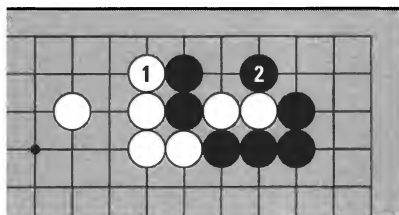


Problem 4

# ANSWERS

## Answer 1:

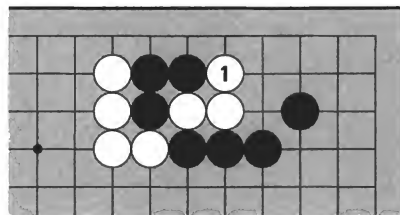
Black has two outside liberties and White has one, so even if it's White's turn, she can't win. If White blocks a liberty at 1, Black can play atari first with 2.



Answer 1

## Answer 2:

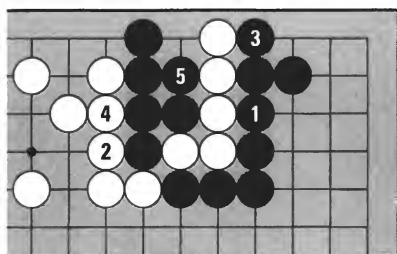
White blocks at 1. She will win the resulting capturing race by one liberty.



Answer 2

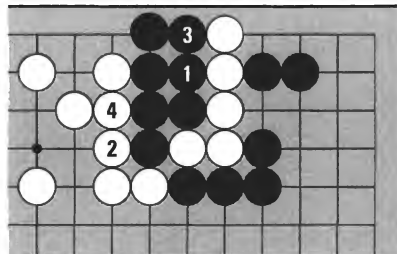
## Answer 3:

Black blocks outside liberties first and wins by one liberty.



Answer 3a

If Black blocks liberties indiscriminately, White 2 and 4 put him in atari first.



Answer 3b

## Answer 4:

This position is not a capturing race. The white group that has been cut off has two eyes, so it is alive. You can't capture groups with two eyes.

# THE HISTORY OF GO

Go is so ancient and widely revered that its origins are legendary. A popular story has it that the King of Yo (2356-2255 B.C.) asked his advisors for help with his belligerent and foolish son Danju. The Chief Minister delighted the court by inventing Go. "Now he will learn how to rule, by playing a game! Brilliant!" thought the King.

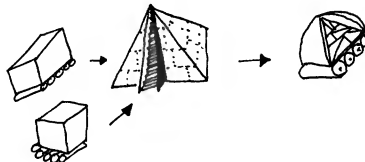
"It's boring," said Danju. "Whoever plays first wins." Danju didn't see that in Go, as in war, better strategy and tactics wins, regardless of who starts.

In disgust at his son's inability to appreciate Go, and in fear of what would happen if Danju were to command armies, the King appointed the Chief Minister heir to the kingdom.

What is almost certain is that Go developed several thousand years ago in or around what is now China. It probably had its origins in astronomy and divination, as can be evidenced in some terminology ("star point," for example) still in use today. It is believed that Go reached Korea some 2,000 years ago during the Three Kingdoms period in the first century B.C. However, a book of the time records that the Buddhist priest Dorim of Koguryo and King Gaero of Paekche played Go. This would indicate that Go spread from China to Korea even earlier.

It is thought that the Paekche Kingdom exported Go to Japan during the reign of Empress Suiko (500 A.D.). In Japan, Go was mainly an intellectual pastime of the royal court until it gained widespread popularity after Tokugawa, a master strategist and tactician, unified the nation around 1600 A.D.

Koreans used to begin play with setup stones on the corner star points until Cho Nam-chul brought the modern form of Go to Korea from Japan about fifty years ago. Modern Go, or Baduk as it is called in Korean, has spread across the whole country very quickly; it is now played by more than eight million people in Korea. By reading this book, you will learn an ancient "language" spoken by more than one hundred million people throughout the world. Slightly different customs apply in each country, but the basic rules and structure of the game are as old as the pyramids.



# KO FIGHTING

## 1. KO THREATS

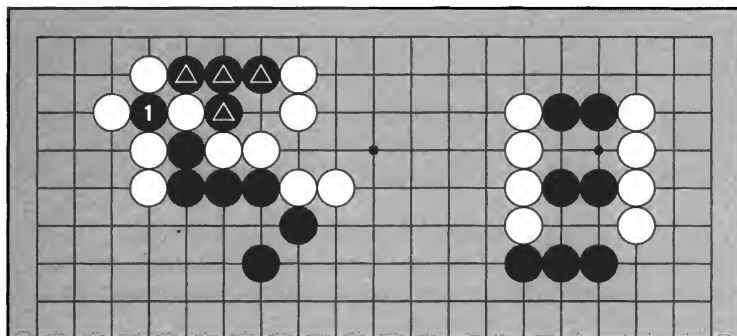


Diagram 1

### Diagram 1:

If White connects at 1, the marked stones will be cut off with no eyes, so Black plays at 1, capturing a stone in ko. Black 1 is in atari, but according to the rule of ko, White may not capture a stone that has captured in ko immediately. She has to play somewhere else first.

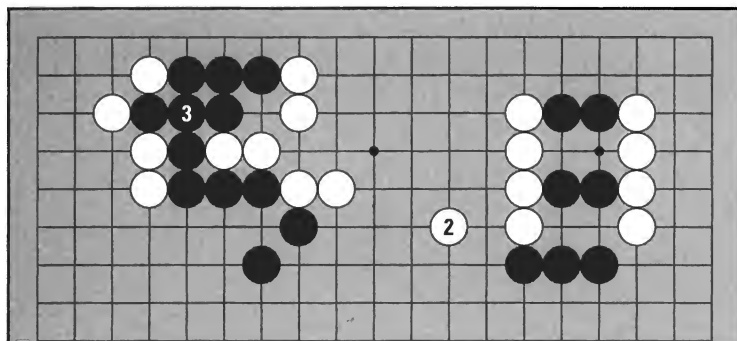


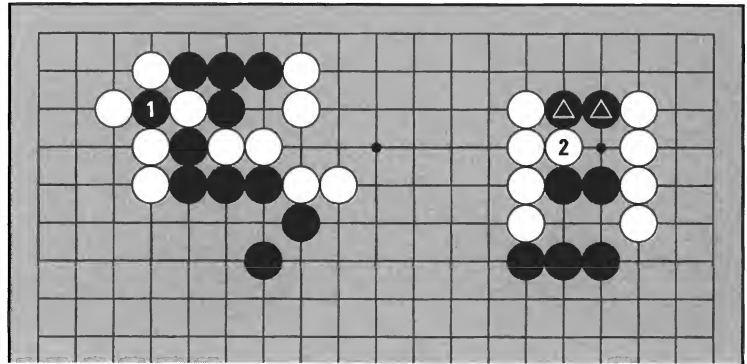
Diagram 2

### Diagram 2:

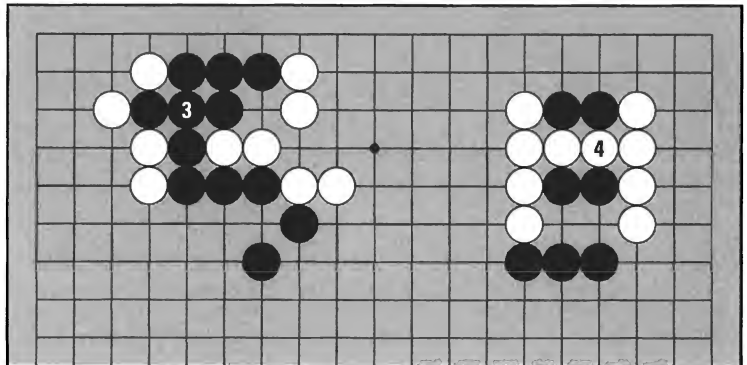
If White plays 2, what will happen? Black doesn't need to answer 2, so he connects the ko at 3. White is a little disappointed about losing the chance to kill four stones. To fight the ko, White doesn't play at 2 —

**Diagram 3:**

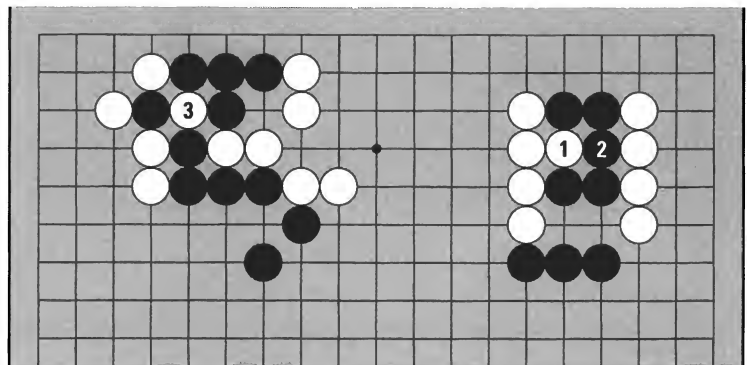
When Black takes the ko at 1, White 2 here is a good idea. This move threatens to cut the bamboo joint, so if Black doesn't answer, White can cut off the two marked stones.

*Diagram 3***Diagram 4:**

Now if Black connects the ko at 3, White can carry out the threat with 4. White yielded the ko but cut off two stones as compensation, so she is satisfied.

*Diagram 4***Diagram 5:**

When White plays at 1, suppose Black doesn't want to lose two stones. In that case he answers at 2. Then White can take back the ko at 3. White may capture here because she played somewhere else already with 1. White 1 is called a **ko threat**, a move that attempts to induce a response in order to take back a ko.

*Diagram 5*

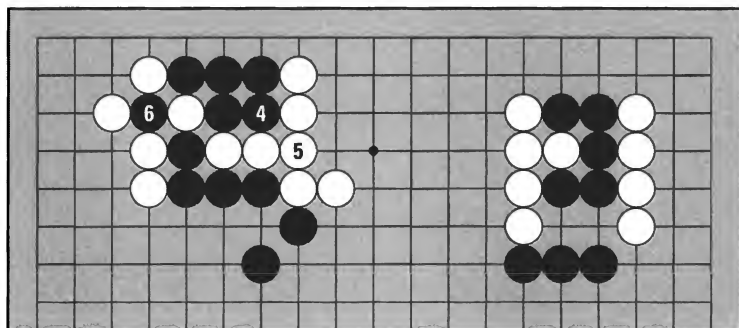


Diagram 6

*Diagram 6:*

This time it's Black's turn to play a ko threat. Black 4 puts the two cutting stones in atari, so White has to connect at 5. Now Black can take back the ko at 6.

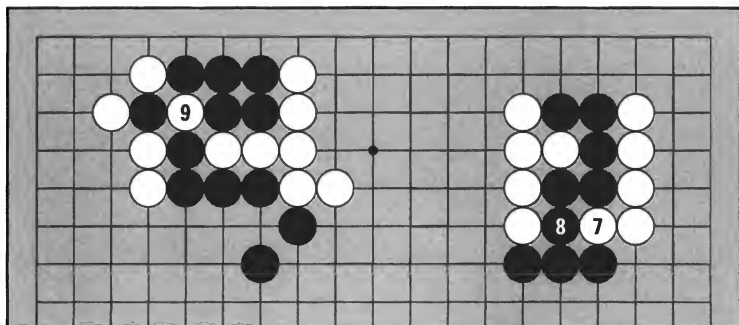


Diagram 7

*Diagram 7:*

White threatens to cut through a bamboo joint again with 7. Black connects at 8. Now White takes back the ko at 9. As you can see, ko fighting is about making ko threats and then taking back the ko. After White 9—

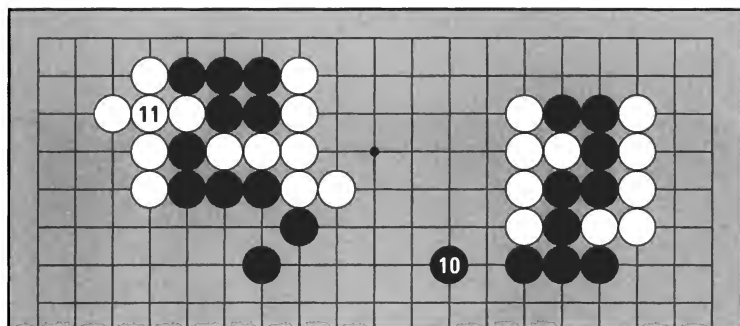


Diagram 8

*Diagram 8:*

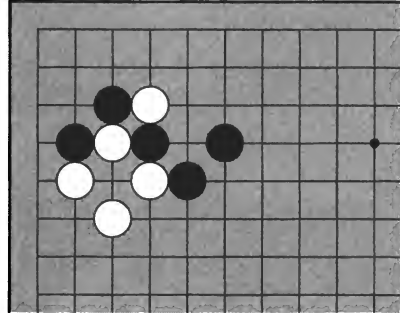
What happens if Black plays 10? White doesn't have to answer, so she connects the ko at 11. White has won this ko. The five black stones at the top left are the spoils of this battle. The sequence of using ko threats and taking back the ko is called a **ko fight**.

Ko fighting is interesting but not easy to understand. The thing to come away with for now: if your opponent captures a stone in ko, use a ko threat and then you can either take back the ko or get something in exchange.

# TRY IT YOURSELF

## Problem 1:

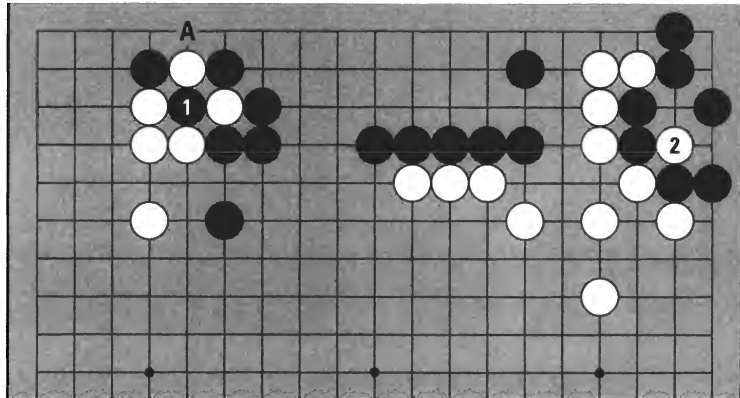
Where can Black capture a stone in ko?



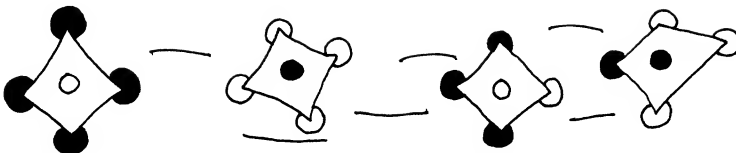
Problem 1

## Problem 2:

After Black took the ko in the upper left corner at 1, White made a ko threat at 2. Should Black win the ko by capturing at A or answer the ko threat?



Problem 2

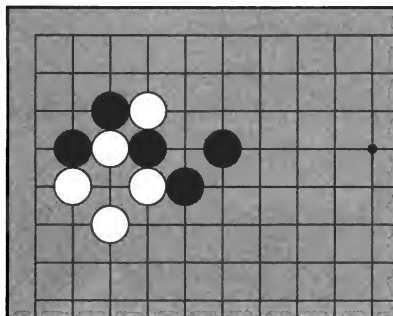




# TRY IT YOURSELF

## Problem 1:

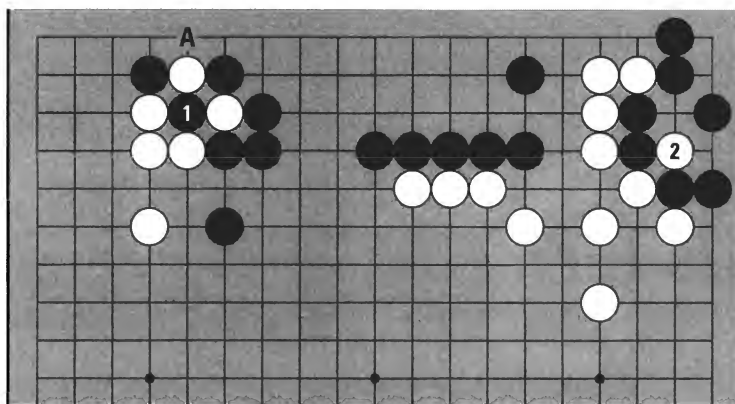
Where can Black capture a stone in ko?



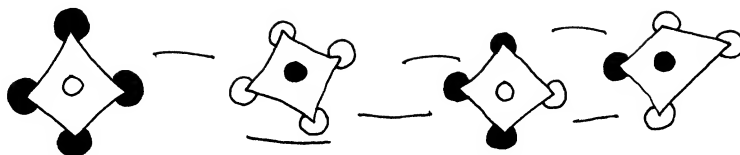
Problem 1

## Problem 2:

After Black took the ko in the upper left corner at 1, White made a ko threat at 2. Should Black win the ko by capturing at A or answer the ko threat?



Problem 2

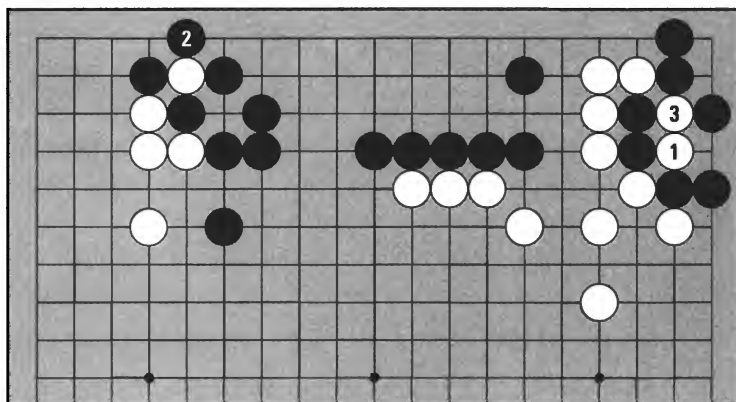




# ANSWERS

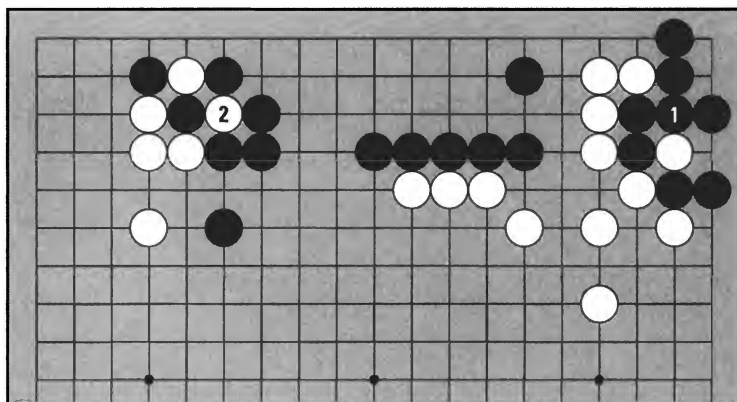
## Answer 2a:

If Black doesn't answer White 1 but elects to win the ko by capturing at 2 instead, White will capture two stones at 3. This is a bad time for Black to notice that the whole black group in the upper right has lost its eyes and is now dead. Even though Black won the ko, he has collapsed in the upper right.



Answer 2a

Black should connect at 1. After White takes back the ko at 2, Black can make a ko threat and continue the ko fight.

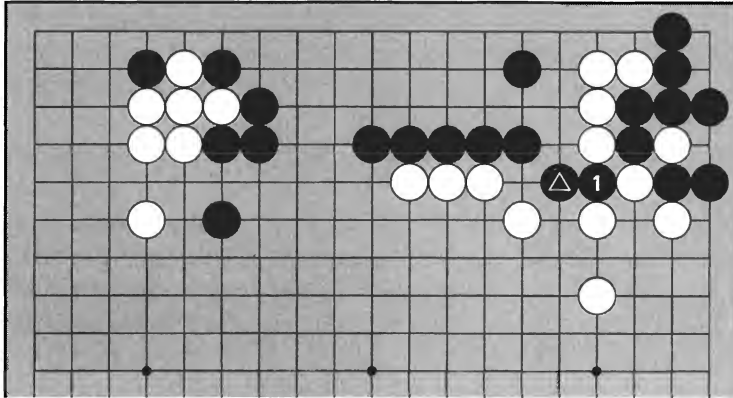


Answer 2b

# ANSWERS

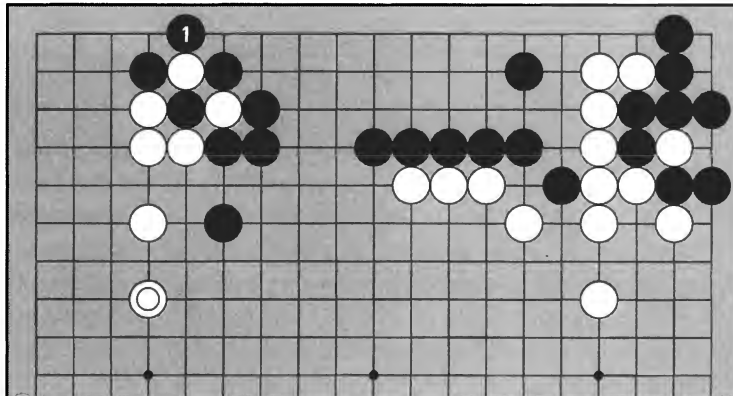
## Answer 3:

Black  $\triangle$  is a ko threat to cut off four stones if White doesn't answer, so naturally Black follows through by cutting at 1. The four stones can't escape and don't have any eyes, so they are dead.



## Answer 4:

Black doesn't need to answer White  $\odot$ , so Black ends the ko by capturing at 1. Black has won this ko.



# GO AND COMPUTERS

Computers and brains are totally different. In order to do anything, a computer must be given a precise list of very simple instructions. These instructions are executed by the machine one at a time in exactly the order specified, and each step has perfectly predictable results. In the brain, waves of activity pulse through our gray matter, alternately in electrical and chemical form, following myriad paths simultaneously, and interacting in complex, poorly understood ways. At the high level of thoughts and actions, we humans are scarcely aware of how our brains work. Our explanations of our own behavior often seem to be rationalization in hindsight rather than an accurate description of what went into our decision-making process.

Ever since computers were first built in the 1940s, people have debated whether these machines can be intelligent even in principle. This is a philosophical question, but an appealingly practical counterpoint was made by the grandfather of computing, Alan Turing, in 1950: If a computer were indistinguishable from a human in an extended conversation, the question of whether it were intelligent would become purely an academic one of definition. Simply put, if machines act intelligently enough, then for all practical purposes, they are intelligent.

The field of computer science concerned with making computers behave intelligently is called Artificial Intelligence. One of the first tasks undertaken in that field was to make a computer play chess. As Claude Shannon put it in his seminal article of 1950, "chess is generally considered to require thinking for skillful play; a solution of this problem will force us either to admit the possibility of mechanized thinking, or to further restrict our concept of 'thinking.'"

Since then, chess programs have been developed to a remarkable level. In 1994, Garry Kasparov, World Chess Champion, lost to a computer for the first time, and the time when chess computers will be stronger than the best human players is within sight. Unfortunately, chess programs do not seem very intelligent in the way they work. Chess computers operate by performing exhaustive searches through many millions of future possibilities to choose their moves. The strongest computers examine on the order of a million positions each second. Clearly, this is nothing like the way humans play.

# GO AND COMPUTERS

This “brute force” approach is not applicable to Go. For one thing, brute force depends absolutely on the ability to perform a quick, accurate positional analysis, but it is qualitatively more difficult to evaluate a Go position than a chess position. In particular, in Go deep analysis is often required just to decide which stones on the board are alive and which are dead. A single mistake in this analysis could easily throw off a computer’s evaluation by 100 points. Even if quick, accurate analysis were possible, the relatively large size of the Go board means that billions of times more future positions would have to be searched through each turn to reach the same level of accuracy that chess computers now have.

Because the brute force approach to Go is closed for the foreseeable future, Go is a much more interesting computing problem than chess. Go programmers must try to replace exhaustive search with expert knowledge as human players do; they must approximate human perception, judgment, and reasoning. So far, there has been scant success. As things stand now, the best Go computers play only at the level of an experienced beginner. If you’ve read this book, you are already around the level of the most sophisticated computer. The challenging field of Go computing remains wide open.

David Mechner

August 1994

---

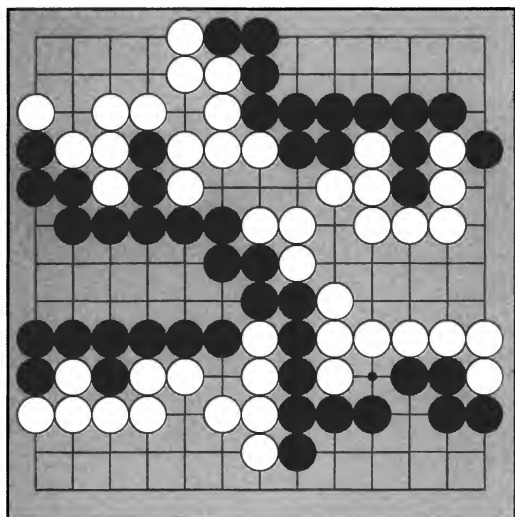
*David Mechner studied Go at the academy of the Japan Go Association, and is currently a Doctoral Fellow in Neuroscience at New York University. He has been working on the problem of computer Go for the past 6 years. As predicted, Kasparov lost to IBM’s Deep Blue in a highly-publicized match in 1997, but computer Go-playing programs remain mired in the beginner levels.*

*email: mechner@cns.nyu.edu.*

# ENDING AND COUNTING

## 1. *WHEN THE GAME IS OVER*

Black and White take turns, each playing one stone until the game is over. Since the aim of Go is to surround territory, the game is over when no more territory can be made or lost. At that point, the players confirm that the game is over and fill in the neutral points.



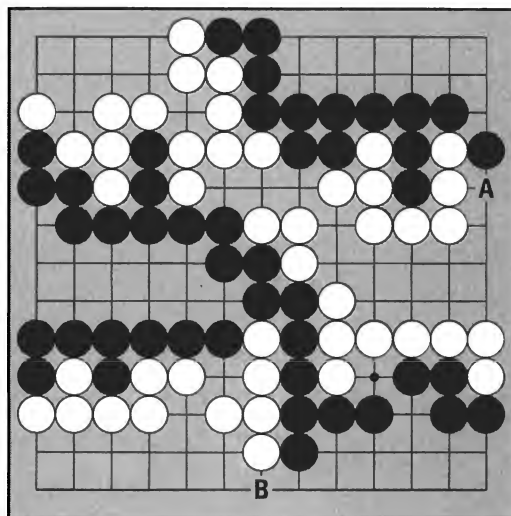
*Diagram 1:*

This is the last stage of a game on a 13 x 13 board. There are some unfinished areas. Where are they?

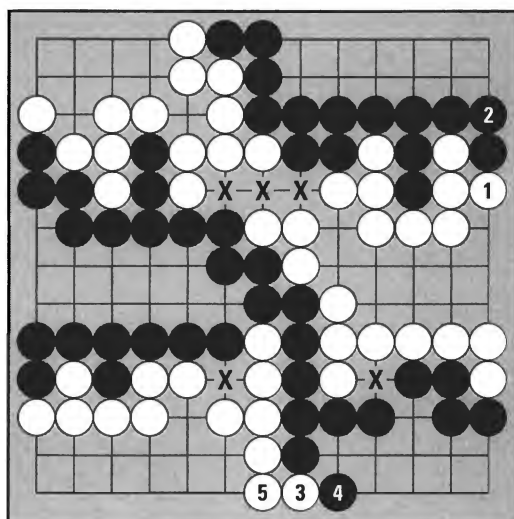
*Diagram 1*

**Diagram 2:**

The walls of territory are not yet complete at A and B. So if it is White's turn—

**Diagram 2****Diagram 3:**

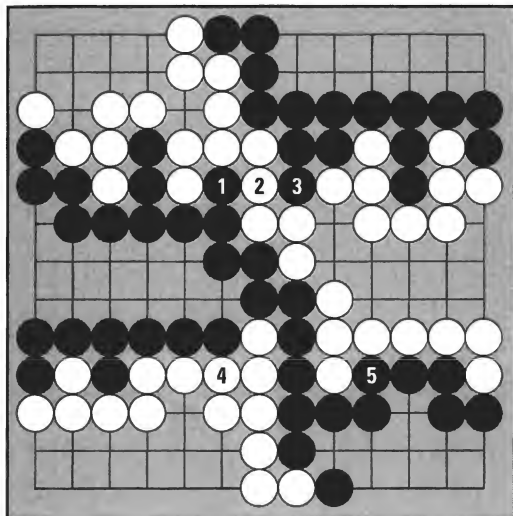
White blocks at 1. Black connects at 2 and this area is finished. Next White plays the hane at 3. Black blocks at 4 and White connects at 5. Now this area is finished. Only the neutral points marked X are left. No more territory can be made or lost, so the players confirm that the game is over.

**Diagram 3**



## 2. FILLING IN NEUTRAL POINTS

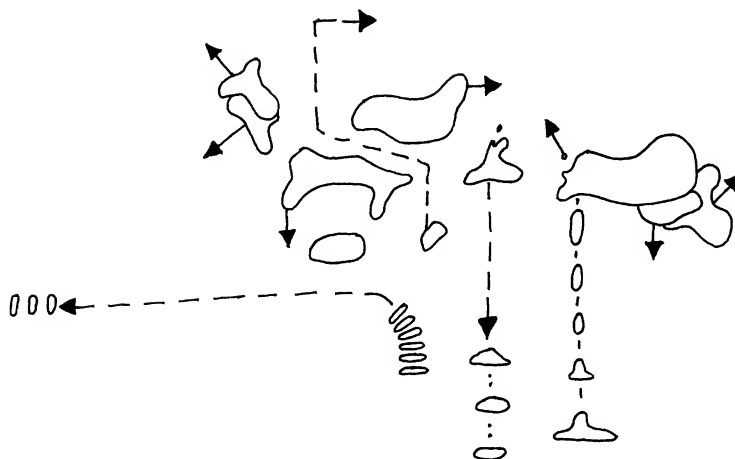
The neutral points aren't territory, so it doesn't affect the score if one side fills in more. In practice, many players take turns filling them.



*Diagram 4*

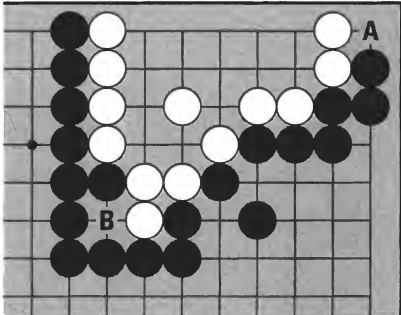
### *Diagram 4:*

The neutral points are filled in the sequence from 1 to 5. Filling in neutral points does not profit either side. But when they are filled, there are matters that demand special attention.



**Diagram 5:**

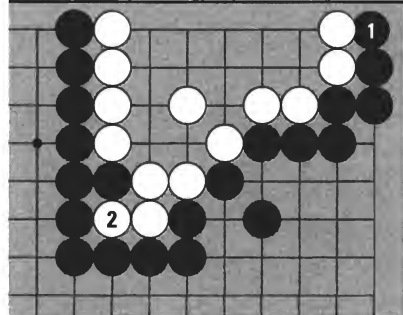
Only the neutral points at A and B remain. Take care when filling them, as when liberties are blocked, weak points are revealed.



*Diagram 5*

**Diagram 6:**

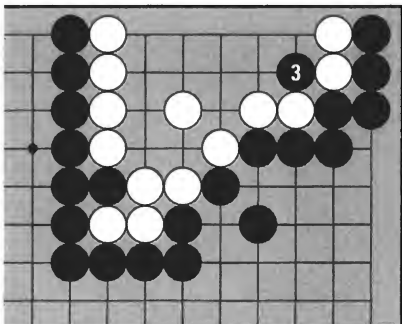
Black fills a neutral point at 1, which also takes away one of White's liberties. If White fills in the other neutral point with 2 —



*Diagram 6*

**Diagram 7:**

Black can cut at 3. The two white stones will be captured and part of White's territory will be destroyed.

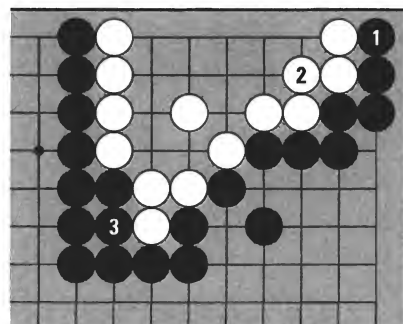


*Diagram 7*

**Diagram 8:**

When Black fills the neutral point at 1, White has to connect at 2 to prevent a breakthrough.

Neutral points have no value, but filling them in can be dangerous. Be careful: there's still a bit of reading to do even after the territorial borders are complete.



*Diagram 8*

### 3. DISPOSITION OF DEAD STONES

After all the neutral points are filled, players take out each other's dead stones.

#### Diagram 9:

Let's look at this completed game on a 9 x 9 board. Black and White each have dead stones in their territories. These stones have to be taken out.

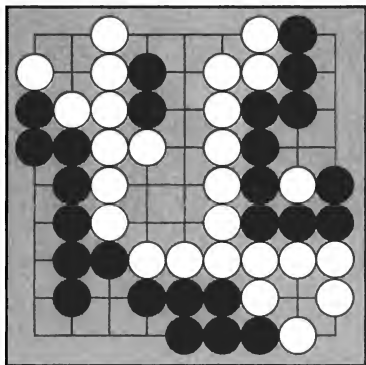


Diagram 9

#### Diagram 10:

At the end of the game, you don't need to play at the places marked with an A to capture; dead stones are just removed.

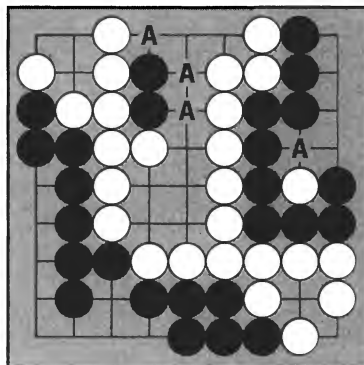


Diagram 10

#### Diagram 11:

The players have taken out each other's dead stones from the places marked X.

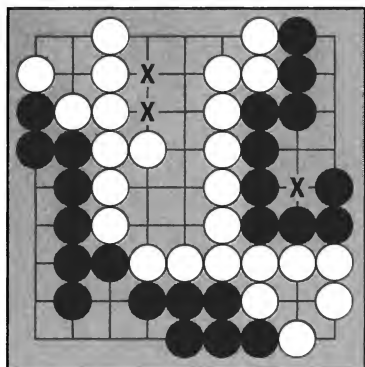


Diagram 11

#### Diagram 12:

The players put the dead stones (White ⊙ and Black ⊕) in their opponent's territory. Each dead stone reduces territory by one point. If you have captured or killed ten stones, you can reduce your opponent's territory by ten points.

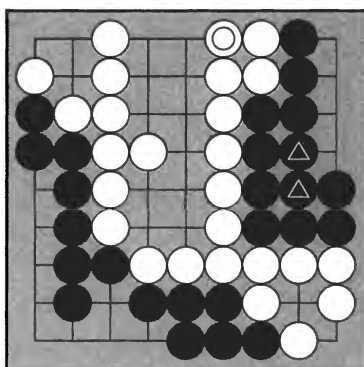


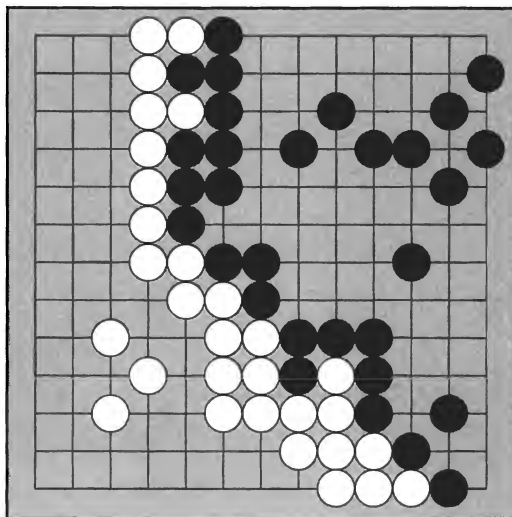
Diagram 12

## 4. ARRANGING TERRITORIES

After the neutral points are filled and dead stones used to reduce territory, arrange and count the territory left.

### *Diagram 13:*

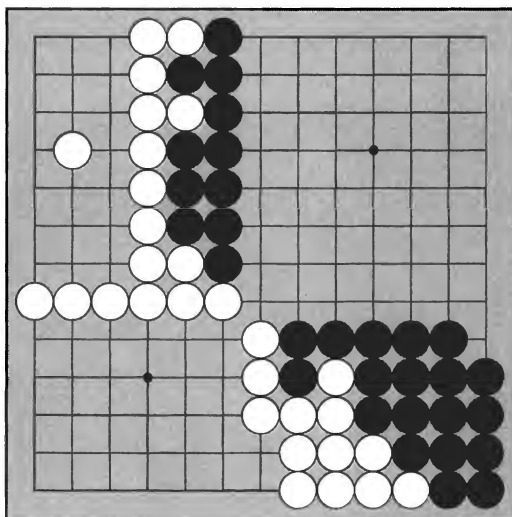
All the neutral points have been filled, and captured or dead stones used to reduce territory. We are now in the counting phase.



*Diagram 13*

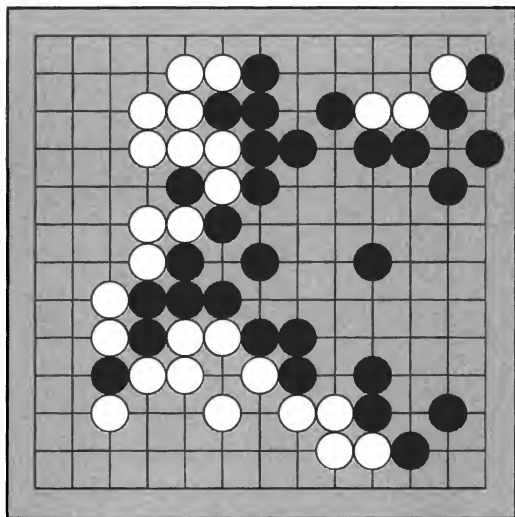
### *Diagram 14:*

For easy counting, arrange the stones to form rectangular shapes without destroying the territorial borderlines. Black has 57 points and White has 52 points, so Black wins by 5 points.



*Diagram 14*

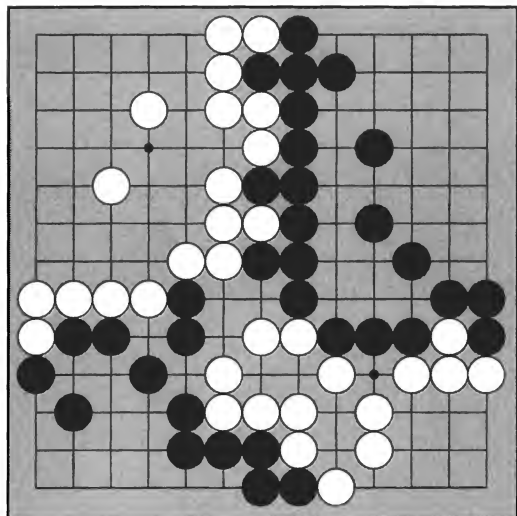
# TRY IT YOURSELF



**Problem 1**

## **Problem 1:**

*This is a game on a 13 x 13 board. The game is almost over but there are still some places that are unfinished. Where are they?*

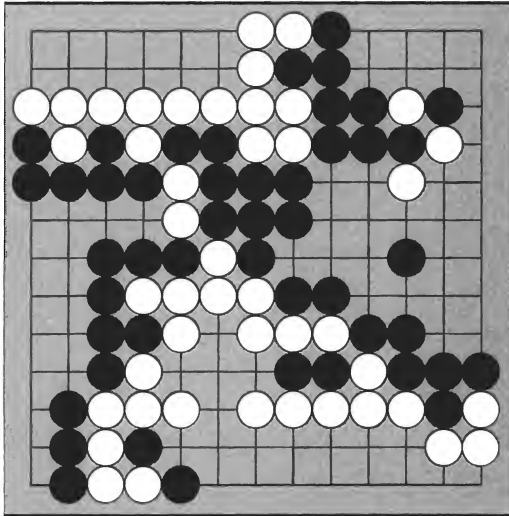


**Problem 2**

## **Problem 2:**

*This game is over, with only neutral points remaining. Where are they?*

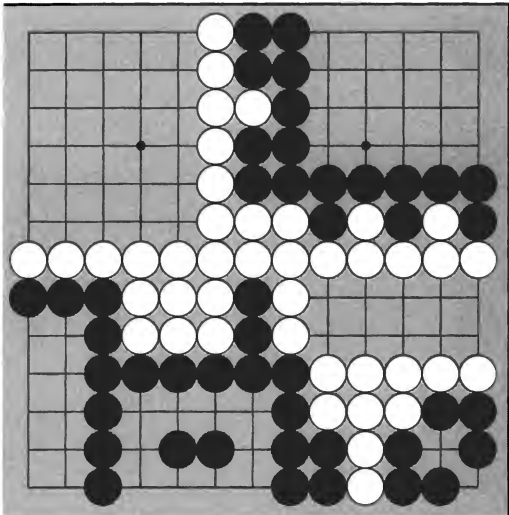
# TRY IT YOURSELF



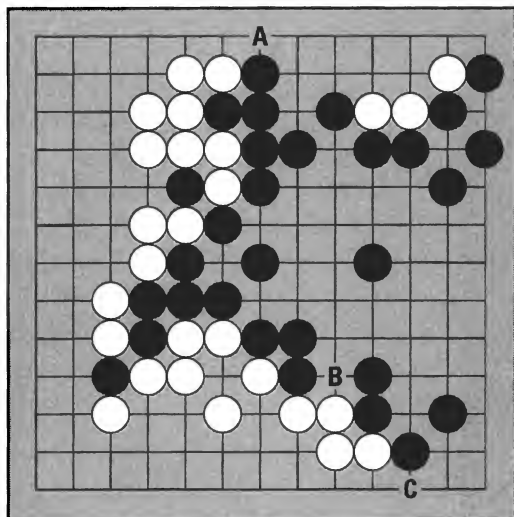
**Problem 3**

## **Problem 3:**

*After this game ended, the players filled in all the neutral points. Now they must fill in each other's territories with the dead stones. Where are they?*



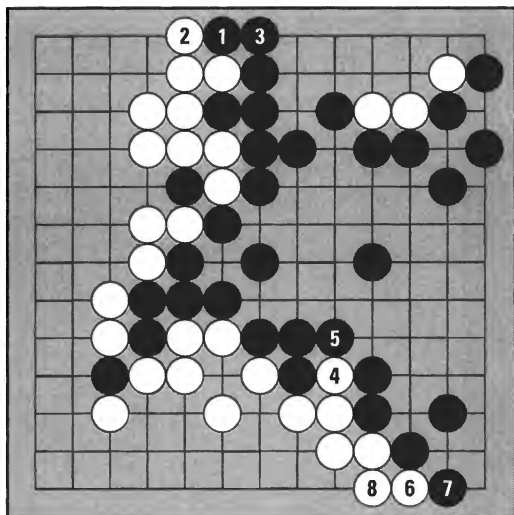
# ANSWERS



**Answer 1a**

## Answer 1:

The incomplete areas are at A, B, and C. When the borders in these areas are finished, the game is over.



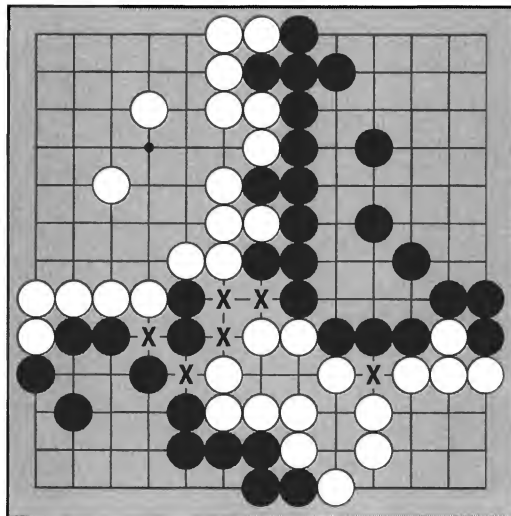
**Answer 1b**

The ending sequence is shown from Black 1 to White 8. The moves made to complete the territorial borderlines are called the endgame.

# ANSWERS

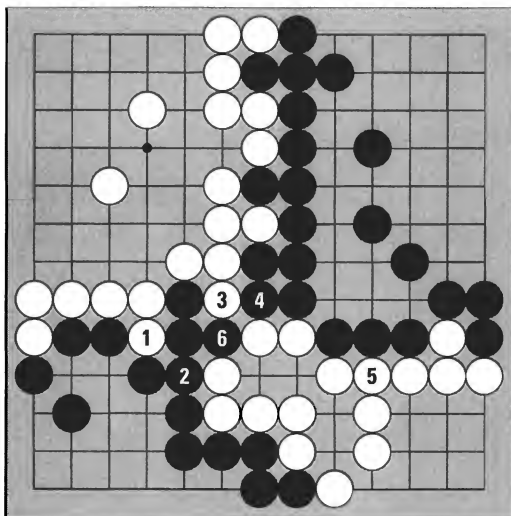
## Answer 2:

*There are six neutral points marked X. Notice—*



*Answer 2a*

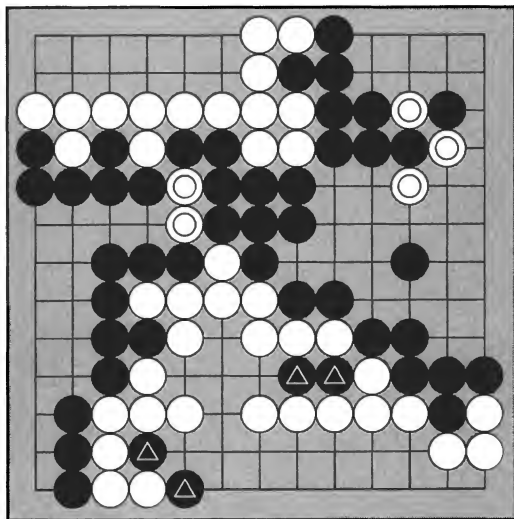
*When White fills the neutral point at 1, Black has to connect at 2. (White 1 threatens the diagonal connection between the two black stones and the corner group.) The remaining neutral points are then filled. It doesn't matter which ones you fill, as long as you watch your weak points.*



*Answer 2b*



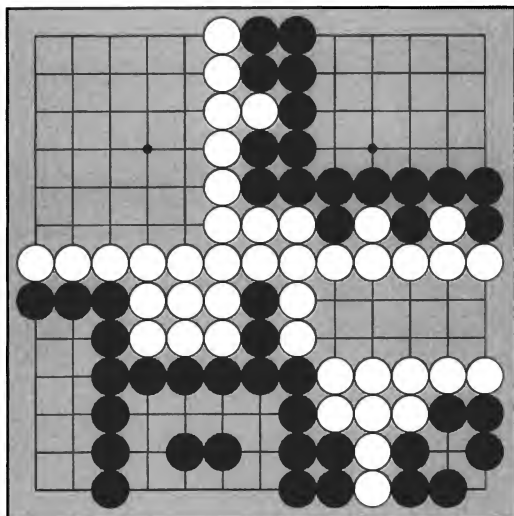
# ANSWERS



**Answer 3**

## Answer 3:

*The four marked black stones and the five marked white stones are dead. These stones are just taken out, and put in their color's territory.*



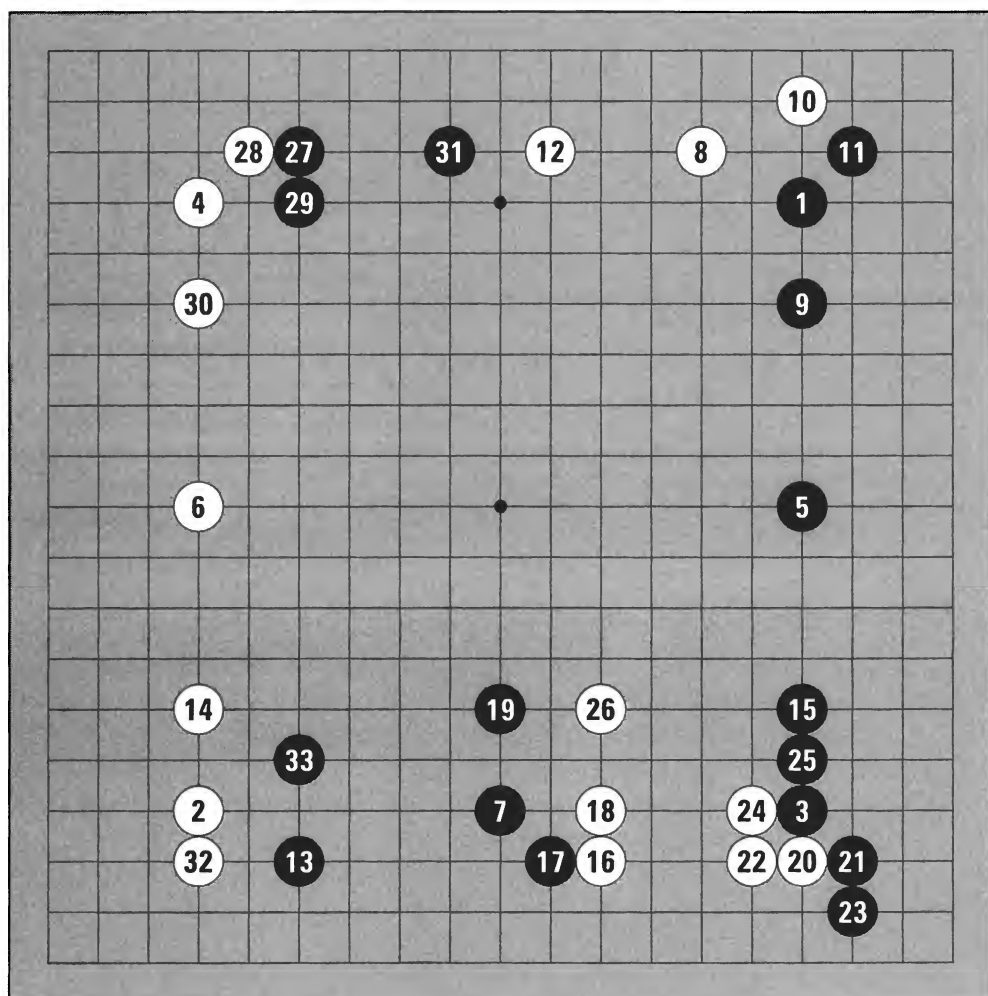
**Answer 4**

## Answer 4:

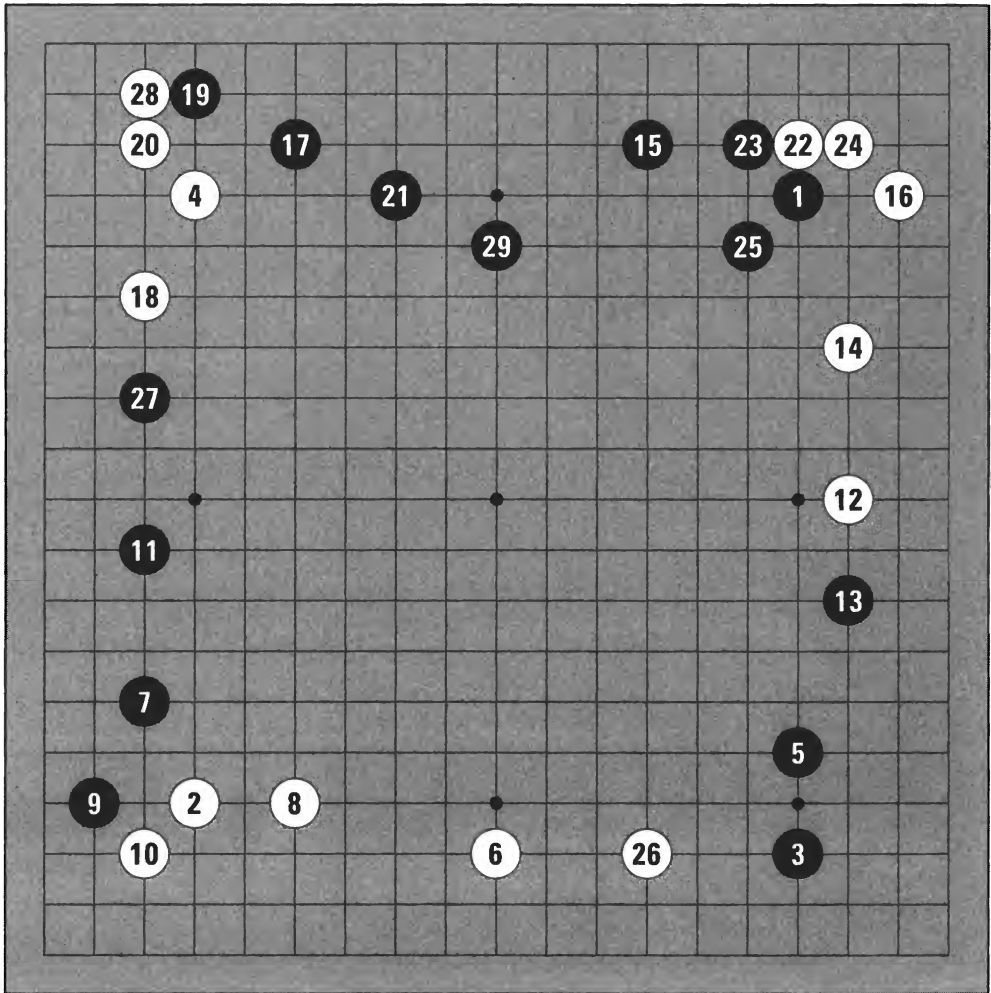
*Black has 42 points and White has 40 points, so Black wins by 2 points.*



# SAMPLE OPENINGS

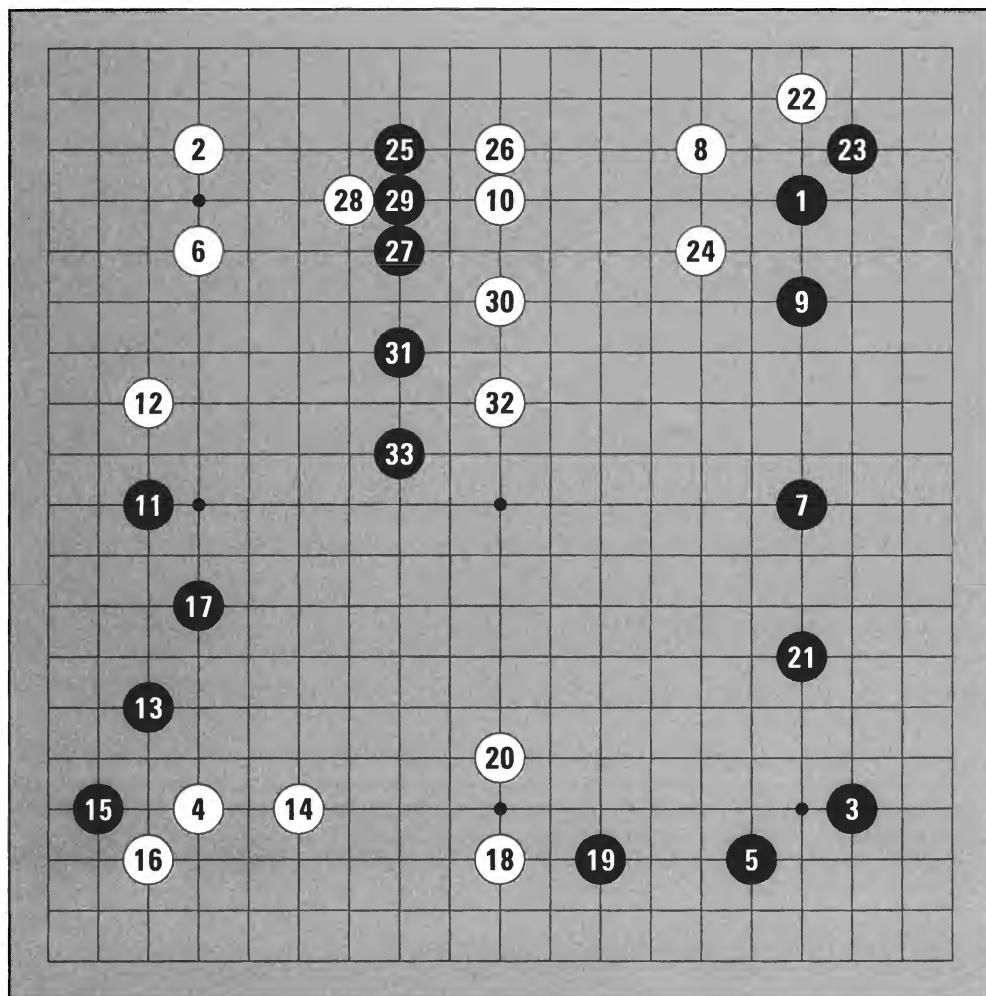


*Game 1 (1 – 33)*

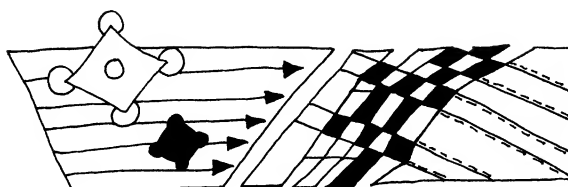


Game 2 (1 - 29)





*Game 3 (1 – 33)*







## APPENDIX A:

---

# Go ASSOCIATIONS

**Argentina** Argentina Go Association, c/o Dr. Scolnik, Ollerros,  
1656-15A, (14126) Buenos Aires, Tel. 54-1-3132700

**Australia** GPO Box 65, Canberra ACT 2601, Mr. Neville Smythe,  
Secretary, Tel. 61-6-249-2709

**Austria** Österreichischer Go Verband, c/o Kurt Paar, Rechte  
Bahngasse 28/2, A-1030 Wien, Tel. 43-1-326261

**Belarus** Belarus Go Association, c/o Suponev, Alexander F.  
Skarinaís Ave. 46/151. BLR-220005 Minsk, Tel. 375-172-325636

**Belgium** Belgian Go Association, c/o Jan Bogaerts, President, Jan  
Mulsstraat 110, B-1853 Strombeek-Bever, Tel. 32-2-2679897

**Brazil** Nihon Ki-in Do Brazil, S/C Ltda, Paraca Arquimedes da  
Silva, No. 116, Sao Paulo. Tel. 011-571-2847

**Canada** Canadian Go Association, David W. Erbach, President,  
71 Brixford Crescent, Winnipeg, Manitoba, R2N 1E1. Tel. 204-256-2537

**Chile** Chile Go Association, c/o Jiro Maeda, Embassy of Japan,  
Casilla 124, Correo 35, Santiago. Tel. 56-2-232-1807

**China** Chinese Weiqi Association, 80 Tian Tan Dong Road,  
Beijing 100061. Tel. 86-10-6711-4680

**Chinese Taipei** Chinese Taipei Wei-chí Association, Kuang-Fu Building,  
4th Fl., No. 35 Kuang-Fu S. Rd., Raipai, Taiwan. Tel. 886-2-7614119

**Cuba** Federacion Cubana de Go, c/o Mr. Rafael Alberto Torres  
Miranda, President, Calle 110 N. 304 Apto. 34 3/3ra y 3ra A. Miramar,  
Ciudad de la Habana. Tel. 53-7-33-1715

**Czech Republic** Czech Go Association, c/o Dr. Vladimir Danek, Chairman, Pod strojirnamí 7, 190 00 Praha 8, Tel. 42-2-6842781

**Denmark** Danish Go Association, c/o Frank Hanssen, Mikkelpark alle, DK-2980 Kokkedal, Tel. 45-42-863481

**D.P.R. Korea** The DPR Korean Go Association, Munsin-dong 2, Dongdaewon District, Pyongyang. Tel. 850-2-3814164

**European Go Federation** Alan Held, President, Sidlerstr. 5, CH-3012, Bern. Tel. 31-6318633

**Finland** Finnish Go Association (Suomen go-liitto ry), c/o Matti Siivola, Rautkalliontie 4 B 24, FI-01360 Vantaa. Tel. 358-0-8744283

**France** Federation Francaise de Go, BP 95, F-75262 Paris Cedex 06. Tel. 33-1-45315738

**Germany** Deutscher Go-Bund, c/o Thomas Nohr, Rahlstedterstrasse 88, D-22149 Hamburg, Tel. 49-511-603970

**Great Britain** British Go Association, Alex Rix, President, 6 Meynell Crescent, Hackney, London E9 7AS, HYPERLINK mailto: bga@acjamj.demon.co.uk bga@acjamj.demon.co.uk

**Greece** Mr. Kyriakos Kofinas, PO Box 23064, G-11210, Athens

**Hong Kong** Hong Kong Go Club, 458 Nathan Rd., 8th Fl., Flat B, Kowloon. Tel. 852-2385-7728

**Hungary** Hungarian Go Association, c/o Mr. Albrecht Istvan, Erkel u 15 H-2092, Budakeszi, Tel. 36-23-450024

**Iceland** Iceland Go Association, c/o Sigurdur Haraldsson, Secretary, Baronsstigur 39, IS-101 Reykjavik, 354-1-10369

**Indonesia** Presatuan Igo Indonesia, c/o Woei-Haw Djap, Jl Latumeten, Gf. Sariputra No. 29, Jakarta 11330. Tel. 62-21-6312162

**Ireland** The Irish Go Association, c/o Noel Mitchell, Blackwood Lane, Malahide, Co. Dublin. Tel. 353-1-7021181



**Italy**                      Contact Gionata Soletti, via Giannone 6, 1-20154 Milano,  
Tel. 39-2-3310 5042

**Japan**                    Japan Go Association (Nihon Ki-in), 7-2, Gobancho, Chiyoda-ku,  
Tokyo 102, Tel: 03-3288-8727, Fax: 03-3262-1527  
                                Kansai Ki-in, Nihon Bunka kaikan Bldg. 7th Floor, 41 3-chome,  
Kitahama, Higashi-ku, Osaka 541, Tel: 06-231-0186

**Korea**                    Korea Baduk Association (Hanguk Kiwon), 315 Hangik-dong,  
Seong Dong-gu, Seoul, 133-30 Tel. 82-2-291-4001. Fax: 82-2-299-0571

**Latvia**                    Latvian Go Federation, 4 Terbatas Street, Riga, Tel: 7-013-284206

**Lithuania**              Lietuvos Go Federacija, Nevezio 6-1, LIT-3000 Kaunas,  
Tel. 7-0127-206226

**Luxembourg**            Go Club de Luxembourg, c/o Bernd Zimmermann, 58, Bd. General  
Patton, L2316, Tel. 35-2-48-22-15

**Mexico**                   Asociacion Mexicana de Go, c/o Mr. Juan Jose Rivaud, Donatelo  
#36, Insurgentes Mixcoac, Benito Juarez 03920, Mexico D.F. Tel. 525-598-9180

**Netherlands**           Dutch Go Association (Nederlandse Go Bond), c/o European Go  
Cultural Centre, Schokland 14, 1181 HV Amstelveen, Tel. 31-20-6455555

**New Zealand**           New Zealand Go Society, c/o Mike Taler, President, 76 Marsden Ave.,  
Auckland, HYPERLINK mailto: Mtaler@chcsn1.ait.ac.nz

**Norway**                   Norwegian Go Association, Dag Belsnes, Secretary, Stabburfaret 12,  
N-1350 Lommedalen, Tel. 47-67561054

**Poland**                   Polish Go Association, c/o Wlodzimierz Malinowski, President, Ul.  
Ogrodowa 22, P1-89500 Tuchola, Tel. 48-53-142065

**Portugal**                Associaca Portuguesa de Go, Rua do Cruzeiro No. 39 R/C E, P-1300  
Lisboa, Tel. 351-1-3622966

**Romania**                Romanian Go Federation, str. Vasile Conta 16, RO-70139 Bucharest.  
Tel. 40-1-3237070

**Russia** Russian Go Federation, c/o Valery Soloviov, ul, Mavlutova 17-17,  
RUS-420061 Kazan, Tel. 7-843-2-352957

**Singapore** Singapore Weiqi Association, c/o Mr. Chun Chin Hwee, 116 Middle  
Rd., #03-04, ICB Enterprise House, 0718. Tel. 65-3397726

**Slovakia** Slovak Go Association, c/o Ivo Karloveska 64 SK-842 50 Bratislava,  
Tel. 42-7-722744

**Slovenia** c/o Peter Gaspari, President, Aleseva 3, 61210, Ljubljna-Sentvid.  
Tel. 386-61 1521-370

**South Africa** South African Go Association, PO Box 561, Parklands,  
Johannesburg, 2121 RSA. Tel. 27-11-678-2798

**Spain** Spanish Go Association, c/o Mr. Cesar Chavez, Secretary, Oviedo  
16, 9040, 28942 Fuenlabrada (Madrid) Tel: 34-3-2199489

**Sweden** Swedish Go Association, c/o Rune Tenghamm, Kvarnbacksvagen 5,  
S-722 33 Vasteras, Tel. 46-21-66210

**Switzerland** Swiss Go Federation, c/o Morrison Roberto, President, Via al  
Cimitero 1B, CH-6514 Sementina, 41-91-8578959

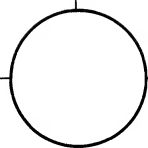
**Thailand** The Go Association of Thailand, c/o C.P Seven Eleven Co., Ltd.,  
Sriboonruang I Building, 6th Floor, 283 Silom Road, Bangrak, Bangkok 10500.  
Tel. 66-2-6310320

**Turkey** General Contact, Kerem Karaerkek, Menevis sok. 65-5 Asagi  
Ayyrancı Ankara, Tel: 90-312-468-0666, Fax: 90-312-3201085

**Ukraine (Crimea)** Crimean Go Federation, P.b. 113 UKR-333035 Simferopol,  
Tel. 380-652-485037

**United States** The American Go Association, PO Box 397, Old Chelsea Station,  
New York, NY 10113-0397

**Venezuela** Asociacion Venezolana de Go, c/o Ms. Maria Dolores Puerta, 3a. Av.  
Los Palos, Grandes



# INDEX

- alive, 35
- amateur, 47
- American Go Association, 77
- artificial intelligence, 152
- atari, 14
  - double, 81
- baduk*, 53, 143
- beek*, SEE **DUAL LIFE**
- bamboo joint, 110-112
- Black, 5-6
- blocking liberties, 13, 140
- board, 2-3
  - mini, 4
- capture, 13
  - more than one stone, 15-16
  - techniques, 80-98
- capturing race, 136-140
  - predicting the winner, 139
- children, 61
- chisugochigi*, 47
- Cho Chi-hoon, 76
- Cho Hoon-hyun, 74
- Cho Nam-chul, 76, 143
- chodan*, 47
- chok-chok-soo*, SEE **PIN**
- chuh-chin-da*, SEE **HANE**
- color, choosing, 5
- compensation, 120
- computers, 60, 152-153
- Congress, U.S. Go, 61, 77
- connection, 20-21
  - solid, 20
  - techniques, 104-114
  - tiger's mouth 104-107
- corner, 3, 36
- counting, 154-159
- crane's nest, 98
- crossing under, 113-114
- cutting, 22-23
- dame*, SEE **NEUTRAL POINT**
- dan*, 47
- Danju, 143
- dansoo*, SEE **ATARI**
- dead stones, 37
  - disposition of, 158-159
- death, 37
- diagonal, 24
- dom*, SEE **COMPENSATION**
- double atari, 81
- dual life, 43, 140
- endgame, 69, 154
- ending, 70-73, 154 ff
- etiquette, 121
- even game, 7, 115
- eye, 38
  - shape, 124-127
  - false, 41-42, 128-129
- filling in neutral points, 156-157
- Fujitsu, 75
- Gaero, King, 143
- gaining liberties
  - by capturing, 30
  - by running, 14

- Go  
     history of, 143  
     names of, 53
- Go Seigen, SEE WU CH'ING-YUAN
- gongbae*, SEE NEUTRAL POINT
- grid, 3
- gup*, 47
- handicap, 7, 120
- Hankook Kiwon, *i*, 76
- hane*, 69
- hanging connection, SEE TIGER'S MOUTH
- history, 143
- Honinbo Shusai, 121
- illegal moves, 28  
     point without liberties, 28  
     rule of ko, 49
- Ing Cup, 74  
     North American, 77
- Internet Go Server (IGS), 60
- intersections, 2
- invasion, 56
- Jiang Zhu-jiu, 77
- jip*, SEE EYE
- kadoban, 47
- Kasparov, Garry, 152
- Kato Masao, 76
- Kawabata Yausunari, 121
- keima*, SEE KNIGHT'S MOVE
- Kerwin, James, 77
- ki-do*, 53
- killing, 38-39, 68, 128-129, 131
- Kitani Minoru, 76, 121
- knight's move, 108-109
- ko, 48, 144 ff  
     connecting, 65, 152-156  
     fight, 148  
     rule, 49  
     taking, 145-48  
     threat, 145  
     winning, 65, 156
- Kobayashi Koichi, 76
- komi*, SEE COMPENSATION
- kyu*, 47
- ladder, 88-90  
     breaker, 90
- Lasker, Edward, 77
- Lee Chang-ho, 75
- liberty, 12  
     fight, SEE CAPTURING RACE  
     inside and outside, 140
- life, 35  
     and death, 122ff  
     conditions for, 38-40  
     dual, 43, 140
- Master of Go, The*, 121
- meh*, SEE EYE
- Myungin*, 74
- names of Go, 53
- nar-il-ja*, SEE KNIGHT'S MOVE
- net, 91-92
- neutral point, 71, 156  
     filling in, 74, 156-157
- Nie Wei-ping, 76
- Nihon Ki-in, 76
- oi-otoshi*, SEE PIN
- Otake Hideo, 76
- pae*, SEE KO
- Paekche Kingdom, 143
- pin, 95-98
- point, 3  
     neutral, 71, 156  
     star, 3  
     without liberties, 28
- professional, 47
- pushing toward the edge, 84-87
- rank, 47
- reading, 87
- Redmond, Michael, 77  
     Cup, 61
- Rin Kaiho, 76

- Rui Nai-wei, 76
- running, 14
- Segoe Kensaku, 74
- seki*, SEE **DUAL LIFE**
- Shannon, Claude, 152
- shodan*, 47
- side, 3,36
- snapback, 93-94
- star point, 3
- stone, 4
  - captured, 13, 71-72
- strength, 47
- Suh Bong-soo, 74
- Suiko, Empress, 143
- Super-Go, 76
- Takemiya Masaki, 76
- territory, 2, 8-9, 54 ff
  - arranging, 72-73
  - conditions for, 55-56
- throw-in, 95-98
- tiger mouth, 105-107
- Titles
  - Korean, 74-75
  - Japanese, 76
  - World
    - Fujitsu, 75
    - Ing Cup, 74
- Tokugawa Ieyasu, 143
- Turing, Alan, 152
- turtle back, 83
- weiqi*, 53
- White, 5-6
- World Youth Championship, 61
- Wu Ch'ing-yuan, 76
- Yo, King of, 143
- Yu Chang-hyuk, 75

**Note on names:** Chinese, Japanese, and Korean names in this book are given family name first. Jeong Soo-hyun's family name is Jeong.

You can find additional copies of this book or other titles in the *Learn to Play Go* series at your local bookstore, or send check or money order in U.S. funds for \$17.95 each (\$14.95 each for Volume II, III, or IV) plus \$3.90 postage for the first book, \$1.00 each additional book to:

**GOOD MOVE PRESS**  
1122 Indiana Avenue  
Sheboygan, WI 53081

**Credit card orders:** write name, address, phone, credit card number, expiration date, and signature on order. Or call anytime:

**1-800-600-4373**

fax 24 hours:  
**920-458-6803**

*Visit us at our Web site: **[www.samarkand.net](http://www.samarkand.net)**  
and order Go books and equipment from our on-line catalog!*

If you haven't ordered from us but would like to receive announcements for future Good Move Press publications and the Samarkand Go equipment catalog, drop us a postcard at the above address, give us a call, send over a fax, or email us at [info@samarkand.net](mailto:info@samarkand.net).

**GOOD MOVE PRESS/  
SAMARKAND**  
*Play Smart.*

*Read the entire series!*

# Learn to Play Go

*Volume I: A Master's Guide to the Ultimate Game*

*Volume II: The Way of the Moving Horse*

*Volume III: The Dragon Style*

*Volume IV: Battle Strategies*

*Volume V: The Palace of Memory*





Copies of the **Learn to Play Go** series are available for Go education programs. If you are interested in starting a class, send your proposal to:

Education Coordinator  
American Go Association  
Box 397, Old Chelsea Station  
New York, NY 10113-0397

## ***Join the AGA!***

The not-for-profit organization devoted to the great game of Go.

Your \$25 annual membership brings you the *American Go Newsletter*, the *American Go Journal*, a national rating system, tournaments, and a wealth of information. To find out more, or to find a club or a tournament near you, write to the address above.

# ABOUT THE AUTHORS

Janice Kim was born in Illinois in 1969. She entered the professional dan ranks in Korea in 1987, the only Westerner ever to do so. She won the Fuji Women's Championship in 1984, took second place in the World Youth Championship in 1985, and third place in the EBS Cup in 1994.

In 2003 she was promoted to 3 dan, the highest rank ever awarded to a woman player by the Korean Go Association. A graduate of New York University, Ms. Kim currently lives in Colorado with husband Bruce and son Malachi, where she teaches and writes about Go, and runs an Internet-based Go company at [www.samarkand.net](http://www.samarkand.net).



*Timothy Greenfield-Sanders*

Jeong Soo-hyun was born in Korea in 1956. Since entering the professional dan ranks in 1973, he has played in numerous championship leagues, winning the Shin Wang title in 1986. He was promoted to 9 dan in 1997.

A well-known teacher, Mr. Jeong has written more than twenty books and is a popular commentator on Korean television. He lives in Seoul with his wife and two children.



*Hankook Kiwon*

# Learn to Play Go

*The elegant game that has enthralled millions of people around the world for millennia*

- Rules and Techniques — know before you Go
- Historical and cultural notes put the game in context
- Designed for speed and ease in learning
- Try-it-yourself section in each chapter
- Suitable for children, demystifying for adults
- Learn Go from scratch or brush up on the fundamentals
- Covers the ground from beginner to 15 “gup” in one book
- First in a series that takes you, step by step, all the way to the master levels
- Listing of associations around the world
- Go set with reversible 19 x 19, 13 x 13 and 9 x 9 boards included

*By far the clearest introduction yet published in English.*

— Games Magazine

*A knockout work of Go teaching. Fun, educational, valuable for kids — recommended.*

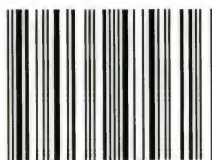
— Yu Chang-hyuk 9 dan, Fujitsu World Champion

\$17.95

**Good Move Press/Samarkand**  
**1-800-600-4373**  
**www.samarkand.net**

Cover design by Michael J. Simon and Janice Kim

ISBN 0-9644796-1-3



5 1795



9 780964 479616